

Qy	1261	ACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCCGG	1320
Db	1261		
		ACCATCCAGCCAGACCTCAGCACCACCACCACCTACCAGGGCAGTCTATGTTCGAGG	1320
Qy	1321	CAGGATGGGCCCAGCCCCAAGTTCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1380
Db	1321		
		CAGGATGGACCCAGCCCCAAGTTCAGCTCTCTAATGGTCACCTGCTCAGCCCACTGGGG	1380
Qy	1381	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1440
Db	1381		
		AGTGGCCGCCATACGTTGCACCACAGCTCACCCACCTCTGAGGCTGAGGACTTCGTCTCC	1440
Qy	1441	CGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1500
Db	1441		
		CGCCTCTCCACCCAAAACCTACTTTCGTTCCCTGCCCCGCGCACCAGCAACATGGCCTAC	1500
Qy	1501	GGGACCTTCAACTTCCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC	1560
Db	1501		
		GGGACCTTCAACTTCCCTCGGGGGCCGGCTGATGATCCCTAATACGGGGATCAGCCTCCTC	1560
Qy	1561	ATCCCCCAGATGCCATACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1620
Db	1561		
		ATACCCCGGATGCCATCCCCGAGGAAAGATCTACGAGATCTACCTCACACTGCACAAG	1620
Qy	1621	CCGGAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1680
Db	1621		
		CCAGAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCAGTCGTTAGC	1680
Qy	1681	TGTGGACCCCTGGCGTCCTGCTCACC CGCCAGTCATCCTGGCTATGGACCACTGTGGG	1740
Db	1681		
		TGTGGGCCCCCAGGAGTCTGCTCACC CGCCAGTCATCCTTGCAATGGACCACTGTGGA	1740
Qy	1741	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1800
Db	1741		
		GAGCCCAGCCCTGACAGCTGGAGTCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGTTGG	1800
Qy	1801	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAG	1860
Db	1801		
		GAGGATGTGCTGCACCTTGGTGAGGAGTCACCTTCCCACCTCTACTACTGCCAGCTGGAG	1860
Qy	1861	GCCAGTGCCTGCTACGTCTTACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCC	1920
Db	1861		
		GCCGGGGCCTGCTATGTCTTACCGAGCAGCTGGGCCGCTTTGCCCTGGTAGGAGAGGCC	1920
Qy	1921	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	1980
Db	1921		
		CTCAGCGTGGCTGCCACCAAGCGCCTCAGGCTCCTTCTGTTTGCTCCCGTGGCCTGTACG	1980
Qy	1981	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2040
Db	1981		
		TCCCTTGAGTACAACATCCGAGTGTACTGCCTACACGACACCCACGACGCTCTCAAGGAG	2040
Qy	2041	GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCAC	2100
Db	2041		
		GTGGTGCAGCTGGAGAAGCAGCTAGGTGGACAGCTGATCCAGGAGCCTCGCGTCCTGCAC	2100
Qy	2101	TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGG	2160

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Db      2101 TTCAAAGACAGTTACCACAACCTACGTCTCTCCATCCACGACGTGCCCAGCTCCCTGTGG 2160
Qy      2161 AAGAGTAAGCTCCTTGTCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCAGC 2220
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      2161 AAGAGCAAGCTACTTGTCTAGCTACCAGGAGATCCCCTTTTACCACATCTGGAACGGCACC 2220
Qy      2221 CAGCGGTACTTGCCTGACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG 2280
      |||| ||| ||||| ||||| ||||| ||||| ||| | ||||| || |||||
Db      2221 CAGCAGTATCTGCTGACCTTCACCCTGGAGCGCATCAACGCCAGCACCAGCGACCTG 2280
Qy      2281 GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC 2340
      ||||| ||||| ||||| ||||| ||||| || || ||||| ||||| |||||
Db      2281 GCCTGCAAGGTGTGGGTGTGGCAGGTGGAGGGAGATGGGCAGAGCTTCAACATCAACTTC 2340
Qy      2341 AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGGTC 2400
      ||||| ||||| ||||| ||||| || || ||||| ||||| |||||
Db      2341 AACATCACTAAGGACACAAGGTTTGCTGAATTGTTGGCTCTGGAGAGTGAAGGGGGGGTC 2400
Qy      2401 CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT 2460
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||
Db      2401 CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAAAGATCATC 2460
Qy      2461 TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTC 2520
      |||| ||||| ||||| || |||| ||||| || |||| ||||| |||||
Db      2461 GCCAGTCTGGACCCACCCTGCAGCCGGGGCGCCGACTGGAGAACTCTAGCCCAGAACTT 2520
Qy      2521 CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC 2580
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Db      2521 CACCTGGACAGCCATCTTAGCTTCTTTGCCTCCAAGCCCAGCCCTACAGCCATGATCCTC 2580
Qy      2581 AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG 2640
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||
Db      2581 AACCTATGGGAGGCACGGCACTTCCCCAACGGCAACCTCGGCCAGCTGGCAGCAGCTGTG 2640
Qy      2641 GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGCGGAGGCTGAGTGCTGA 2697
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Db      2641 GCCGGACTGGGCCAACAGATGCTGGCCTCTTCACGGTGTGCGGAGGCCGAGTGTTGA 2697

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# RESULT 2

US-09-306-902A-1

; Sequence 1, Application US/09306902A

; Patent No. 6277585

## ; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc

; Leonardo, E. David

; Hink, Lindsay

; Masu, Masayuki

; Kazuko, Keino-Masu

; TITLE OF INVENTION: Netrin Receptors

; NUMBER OF SEQUENCES: 9

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP

; STREET: 268 BUSH STREET, SUITE 3200

; CITY: SAN FRANCISCO

; STATE: CALIFORNIA

```

;          COUNTRY: USA
;          ZIP: 94104
;    COMPUTER READABLE FORM:
;          MEDIUM TYPE: Floppy disk
;          COMPUTER: IBM PC compatible
;          OPERATING SYSTEM: PC-DOS/MS-DOS
;          SOFTWARE: PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;          APPLICATION NUMBER: US/09/306,902A
;          FILING DATE: 07-May-1999
;          CLASSIFICATION: <Unknown>
;    ATTORNEY/AGENT INFORMATION:
;          NAME: OSMAN, RICHARD A
;          REGISTRATION NUMBER: 36,627
;          REFERENCE/DOCKET NUMBER: UC96-217
;    TELECOMMUNICATION INFORMATION:
;          TELEPHONE: (415) 343-4341
;          TELEFAX: (415) 343-4342
;    INFORMATION FOR SEQ ID NO: 1:
;      SEQUENCE CHARACTERISTICS:
;        LENGTH: 3014 base pairs
;        TYPE: nucleic acid
;        STRANDEDNESS: double
;        TOPOLOGY: linear
;      MOLECULE TYPE: cDNA
;      SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-306-902A-1

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Query Match          83.5%;  Score 2252.2;  DB 3;  Length 3014;
Best Local Similarity 89.7%;  Pred. No. 0;
Matches 2419;  Conservative 0;  Mismatches 278;  Indels 0;  Gaps 0;

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Qy      1 ATGGCCGTCCGGCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTC 60
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Db      1 ATGGCCGTCCGGCCCGGCCTGTGGCCAGTGCTCCTGGGCATAGTCCTCGCCGCCTGGCTT 60

Qy     61 CGCGGCTCGGGTGCCCGAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCG 120
        || || ||||||||||||||||||||||||||||||||||||||||||||
Db     61 CGTGGTTTCGGGTGCCCAGCAGAGTGCCACGGTGGCCAATCCAGTGCCCGGTGCCAACCCC 120

Qy    121 GACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA 180
        |||||||| |||||||||||||||||| ||||| ||||||| |||||||||
Db    121 GACCTGCTGCCCCACTTCCTGGTAGAGCCTGAGGACGTGTACATTGTCAAGAACAAGCCG 180

Qy    181 GTGCTGCTTGTGTGCAAGGCCGTGCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAG 240
        ||| || | |||||||||| ||||| ||||| ||||||||||||||||| |||||
Db    181 GTGTTGTTGGTGTGCAAGGCTGTGCCTGCCACCCAGATCTTCTTCAAGTGCAATGGGGAA 240

Qy    241 TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC 300
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Db    241 TGGGTCCGCCAGGTGCATCACGTAATTGAACGCAGCACCGACAGCAGCAGCGGATTGCCA 300

Qy    301 ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGCGAGAAGGTGTTGGGCTGGAG 360
        |||||||||||| || || || || || |||||||||| ||||| ||||| |||||||
Db    301 ACCATGGAGGTCCGTATCAACGTATCGAGGCAGCAGGTAGAGAAAGTGTTTGGGCTGGAG 360

Qy    361 GAATACTGGTGCCAGTGCCTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC 420

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Db	361	GAATACTGGTGCCAGTGTGTGGCATGGAGCTCCTCGGGTACCACCAAAAGTCAGAAGGCC	420	
Qy	421	TACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTG	480	
Db	421	TACATCCGGATTGCCTATTTGCGCAAGAACTTTGAGCAGGAGCCACTGGCCAAGGAAGTG	480	
Qy	481	TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAG	540	
Db	481	TCCTGGAGCAAGGCATTGTACTACCTTGTGCCCCCAGAAGGAATCCCCCAGCTGAG	540	
Qy	541	GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC	600	
Db	541	GTGGAGTGGCTTCGAAATGAGGACCTCGTGGACCCCTCCCTCGATCCCAATGTGTACATC	600	
Qy	601	ACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACCTACACC	660	
Db	601	ACGCGGGAGCACAGCCTAGTCGTGCGTCAGGCCCGCCTGGCCGACACGGCCAACCTACACC	660	
Qy	661	TGCGTGGCCAAGAACATCGTGGCACGTGCGCGCAGCGCCTCCGCTGCTGTCATCGTCTAC	720	
Db	661	TGTGTGGCCAAGAACATCGTAGCCCGTGCCTCGCGAAGCACCTCTGCAGCGGTATTGTTTAT	720	
Qy	721	GTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	780	
Db	721	GTGAACGGTGGGTGGTTCGACGTGGACTGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGT	780	
Qy	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	840	
Db	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCACCTCTCAACGGGGGCGCCTTC	840	
Qy	841	TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGC	900	
Db	841	TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACTCTGTGCCAGTAGGATGGGAGC	900	
Qy	901	TGGAGCCCGTGGAGCAAGTGGTGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	960	
Db	901	TGGAGTTCGTGGAGTAAGTGGTGCAGCCTGTGGGCTTGACTGCACCCACTGGCGGAGCCGC	960	
Qy	961	GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	1020	
Db	961	GAGTGCTCTGACCCAGCACCCCGCAATGGAGGTGAGGAGTGTCGGGGTGCTGACCTGGAC	1020	
Qy	1021	ACCCGCAACTGTACCAAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC	1080	
Db	1021	ACCCGCAACTGTACCAAGTGACCTCTGCCTGCACACCGCTTCTTGCCCCGAGGACGTGGCT	1080	
Qy	1081	CTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATC	1140	
Db	1081	CTCTACATCGGCCTTGTGCTGTGGCTGTGTGCCTCTTCTTGCTGTTGCTGGCCCTTGGA	1140	
Qy	1141	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1200	
Db	1141	CTCATTTACTGTCGAAGAAGGAAGGGCTGGACTCCGATGTGGCCGACTCGTCCATCCTC	1200	
Qy	1201	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTC	1260	

Db	1201	ACCTCGGGCTTCCAGCCTGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCACCTGCTC	1260
Qy	1261	ACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG	1320
Db	1261	ACCATCCAGCCAGACCTCAGCACCACCCTACCACCTACCAGGGCAGTCTATGTTTCGAGG	1320
Qy	1321	CAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1380
Db	1321	CAGGATGGACCCAGCCCCAAGTTCCAGCTCTCTAATGGTCACCTGCTCAGCCCACTGGGG	1380
Qy	1381	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1440
Db	1381	AGTGGCCGCCATACGTTGCACCACAGCTCACCCACCTCTGAGGCTGAGGACTTCGTCTCC	1440
Qy	1441	CGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1500
Db	1441	CGCCTCTCCACCCAAAATACTTTTCGTTCCCTGCCCCGCGGCACCAGCAACATGGCCTAC	1500
Qy	1501	GGGACCTTCAACTTCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC	1560
Db	1501	GGGACCTTCAACTTCTCGGGGGCCGGCTGATGATCCCTAATACGGGGATCAGCCTCCTC	1560
Qy	1561	ATCCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1620
Db	1561	ATACCCCGGATGCCATCCCCCGAGGAAAGATCTACGAGATCTACCTCACACTGCACAAG	1620
Qy	1621	CCGGAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1680
Db	1621	CCAGAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCAGTCGTTAGC	1680
Qy	1681	TGTGGACCCCTGGCGTCTGCTCACCCGGCCAGTCATCTGGCTATGGACCACTGTGGG	1740
Db	1681	TGTGGGCCCCCAGGAGTCTGCTCACCCGGCCAGTCATCTTGCAATGGACCACTGTGGA	1740
Qy	1741	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1800
Db	1741	GAGCCCAGCCCTGACAGCTGGAGTCTGCGCCTCAAAAAGCAGTCCTGCGAGGGCAGTTGG	1800
Qy	1801	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAG	1860
Db	1801	GAGGATGTGCTGCACCTTGGTGAGGAGTCACCTTCCCACCTCTACTACTGCCAGCTGGAG	1860
Qy	1861	GCCAGTGCCTGCTACGTCTTACCCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCC	1920
Db	1861	GCCGGGGCCTGCTATGTCTTACGGAGCAGCTGGGCCGCTTTGCCCTGGTAGGAGAGGCC	1920
Qy	1921	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	1980
Db	1921	CTCAGCGTGGCTGCCACCAAGCGCCTCAGGCTCCTTCTGTTTGCTCCCGTGGCCTGTACG	1980
Qy	1981	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2040
Db	1981	TCCCTTGAGTACAACATCCGAGTGTACTGCCTACACGACACCCACGACGCTCTCAAGGAG	2040
Qy	2041	GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	2100
Db	2041	GTGGTGCAGCTGGAGAAGCAGCTAGGTGGACAGCTGATCCAGGAGCCTCGCGTCTGCAC	2100



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; CITY: SAN FRANCISCO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/808,982
; FILING DATE:
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: OSMAN, RICHARD A
; REGISTRATION NUMBER: 36,627
; REFERENCE/DOCKET NUMBER: UC96-217
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 343-4341
; TELEFAX: (415) 343-4342
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1787 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-808-982-2

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Query Match          57.6%; Score 1552.4; DB 2; Length 1787;
Best Local Similarity 98.5%; Pred. No. 0;
Matches 1651; Conservative 0; Mismatches 16; Indels 9; Gaps 8;

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Qy      1085 ATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCTCG 1144
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Db      60 ATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCTCG 119

Qy      1145 TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 1204
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Db      120 TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 179

Qy      1205 CAGGCTTCCAGCCCGTCAGCATC-AAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACC 1263
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Db      180 CAGGCTTCCAGCCCGTCAGCATCTAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACC 239

Qy      1264 ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG 1323
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Db      240 ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG 299

Qy      1324 GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC 1383
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Db      300 GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC 359

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Qy	1384	GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC	1443
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Qy	1444	CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG	1503
Db	420	CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG	479
Qy	1504	ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATC	1563
Db	480	ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTCCTCATC	539
Qy	1564	CCCCCAGATGCCATACCCCCGAGGGAAGATCTATGAGATCTACCTCAGCTGCACAAGCCG	1623
Db	540	CCCCCAGATGCCATACCCCCGAGGGAAGATCTATGAGATCTACCTCAGCTGCACAAGCCG	599
Qy	1624	GAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	1683
Db	600	GAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	659
Qy	1684	GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	1743
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Qy	1744	CCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAG	1803
Db	720	CCCAGCCCTGACAGCTGGAGCCTGGCCCTCAAAAAGCAGTCGTGCGAGGG-AGCTGGGAG	778
Qy	1804	GATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	1863
Db	779	GATGT-CTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	837
Qy	1864	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	1923
Db	838	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	897
Qy	1924	AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	1983
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Qy	1984	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	2043
Db	958	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	1017
Qy	2044	GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTC	2103
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Qy	2104	AAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAG	2163
Db	1077	AAGGACAGTTACCACAACCT--GCCCTATCATCCACGATGTGCCAGCTCCCTGTGGAAG	1134
Qy	2164	AGTAAGCTCCTTGTCAGCTACCAGGAGATCCCCCTTTTATCACATCTGGAATGGCACGCAG	2223
Db	1135	AGTAAGCTCCTTGTCAGCTACCAGGAGATCCCCCTTTTATCACATCTGGAATGGCACGCAG	1194
Qy	2224	CGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC	2283



Db	1195		CGGTACTTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC	1254
Qy	2284		TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAAC	2343
Db	1255		TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAAC	1314
Qy	2344		ATCACCAAGGACACAAGGTTTGTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA	2403
Db	1315		ATCACCAAGGACACAAGGTTTGTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA	1374
Qy	2404		GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCTTCATTTCGGCAGAAGATAATTTCC	2463
Db	1375		GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCTTCATTTCGGCAGAAGATAATTTCC	1434
Qy	2464		AGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCAC	2523
Db	1435		AGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCAC	1494
Qy	2524		CTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAAC	2583
Db	1495		CTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAAC	1554
Qy	2584		CTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT	2643
Db	1555		CTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT	1614
Qy	2644		GGACTGGGCCAGCCAGACGCTGGCCTC-TTCACAGTG-TCGGAGGCTGAGTGCTGA	2697
Db	1615		GGGACTGGCCAGCAGGACGGTGGCTTCTTTACAGTGTTTCGGAGGCTGAGTGCTGA	1670

RESULT 4

US-09-306-902A-2

; Sequence 2, Application US/09306902A

; Patent No. 6277585

; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc  
; Leonardo, E. David  
; Hink, Lindsay  
; Masu, Masayuki  
; Kazuko, Keino-Masu

; TITLE OF INVENTION: Netrin Receptors

; NUMBER OF SEQUENCES: 9

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP  
; STREET: 268 BUSH STREET, SUITE 3200  
; CITY: SAN FRANCISCO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94104

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

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; APPLICATION NUMBER: US/09/306,902A
; FILING DATE: 07-May-1999
; CLASSIFICATION: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: OSMAN, RICHARD A
; REGISTRATION NUMBER: 36,627
; REFERENCE/DOCKET NUMBER: UC96-217
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 343-4341
; TELEFAX: (415) 343-4342
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1787 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-306-902A-2

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Query Match          57.6%; Score 1552.4; DB 3; Length 1787;
Best Local Similarity 98.5%; Pred. No. 0;
Matches 1651; Conservative 0; Mismatches 16; Indels 9; Gaps 8;

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Qy      1025 GCAACTGTACAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCT 1084
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Db      1 GCAACTGTACAGTGACCTCTG-GTACACACTGCTTCTGGCCCTGAGGACGTGGCCCTCT 59

Qy      1085 ATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCTCG 1144
          |||
Db      60 ATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCTCG 119

Qy      1145 TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 1204
          |||
Db      120 TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 179

Qy      1205 CAGGCTTCCAGCCCGTCAGCATC-AAGCCAGCAAAGCAGACAACCCCATCTGCTCACC 1263
          |||
Db      180 CAGGCTTCCAGCCCGTCAGCATCTAAGCCAGCAAAGCAGACAACCCCATCTGCTCACC 239

Qy      1264 ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG 1323
          |||
Db      240 ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG 299

Qy      1324 GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC 1383
          |||
Db      300 GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC 359

Qy      1384 GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC 1443
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Db      360 GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC 419

Qy      1444 CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG 1503
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Db      420 CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG 479

Qy      1504 ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATC 1563

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Db	480	 ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTCCTCATC	539
Qy	1564	CCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG	1623
Db	540	 CCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG	599
Qy	1624	GAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	1683
Db	600	 GAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	659
Qy	1684	GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	1743
Db	660	 GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	719
Qy	1744	CCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAG	1803
Db	720	 CCCAGCCCTGACAGCTGGAGCCTGGCCCTCAAAAAGCAGTCGTGCGAGGG-AGCTGGGAG	778
Qy	1804	GATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	1863
Db	779	 GATGT-CTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	837
Qy	1864	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	1923
Db	838	 AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	897
Qy	1924	AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	1983
Db	898	 AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	957
Qy	1984	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	2043
Db	958	 CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	1017
Qy	2044	GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTTGCACCTTC	2103
Db	1018	 GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTTGCACCTTC	1076
Qy	2104	AAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAG	2163
Db	1077	 AAGGACAGTTACCACAACCT--GCCCTATCATCCACGATGTGCCCAGCTCCCTGTGGAAG	1134
Qy	2164	AGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTATCACATCTGGAATGGCACGCAG	2223
Db	1135	 AGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTATCACATCTGGAATGGCACGCAG	1194
Qy	2224	CGGTACTTGCACTGCACCTTACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC	2283
Db	1195	 CGGTACTTGCACTGCACCTTACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC	1254
Qy	2284	TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAAGCATCAACTTCAAC	2343
Db	1255	 TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAAGCATCAACTTCAAC	1314
Qy	2344	ATCACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA	2403

Db 1315 ATCACCAAGGACACAAGGTTTGTCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA 1374  
 Qy 2404 GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTTCGGCAGAAGATAATTTCC 2463  
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 Db 1375 GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTTCGGCAGAAGATAATTTCC 1434  
 Qy 2464 AGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAAACTCCAC 2523  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Db 1435 AGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAAACTCCAC 1494  
 Qy 2524 CTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAAC 2583  
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 Db 1495 CTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAAC 1554  
 Qy 2584 CTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT 2643  
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 Db 1555 CTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT 1614  
 Qy 2644 GGA CTGGGCCAGCCAGACGCTGGCCTC-TTCACAGTG-TCGGAGGCTGAGTGCTGA 2697  
 || ||||| |||| ||| ||||| ||||||||| ||||||||||||||||  
 Db 1615 GGGACTGGCCAGCAGGACGGTGGCTTCTTTTCACAGTGTTTCGGAGGCTGAGTGCTGA 1670

RESULT 5

US-08-808-982-3

; Sequence 3, Application US/08808982

; Patent No. 5939271

; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc

; APPLICANT: Leonardo, E. David

; APPLICANT: Hink, Lindsay

; APPLICANT: Masu, Masayuki

; APPLICANT: Kazuko, Keino-Masu

; TITLE OF INVENTION: Netrin Receptors

; NUMBER OF SEQUENCES: 8

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP

; STREET: 268 BUSH STREET, SUITE 3200

; CITY: SAN FRANCISCO

; STATE: CALIFORNIA

; COUNTRY: USA

; ZIP: 94104

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/808,982

; FILING DATE:

; CLASSIFICATION: 530

; ATTORNEY/AGENT INFORMATION:

; NAME: OSMAN, RICHARD A

; REGISTRATION NUMBER: 36,627

; REFERENCE/DOCKET NUMBER: UC96-217

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (415) 343-4341

```

; TELEFAX: (415) 343-4342
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2831 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-808-982-3

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Qy		758 TCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGG	817
Db		764 CCTGCTCTAACCGCTGCGGCCGAGGTTGGCAGAAACGTACTAGGACCTGCACCAACCCAG	823
Qy		818 CGCCTCTCAAACGGGGGCGCTTTC GTGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCA	877
Db		824 CCCCACTCAATGGAGGTGCCTTCTGCGAGGGACAGGCTTGCCAGAAGACGGCTTGACCA	883
Qy		878 CCCTGTGCCCAGTAGACGGCAGCTGGAGCCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGG	937
Db		884 CCGTGTGCCCAGTGGATGGAGCGTGGACTGAGTGGAGCAAGTGGTCCGCCTGCAGCACAG	943
Qy		938 ACTGCACCCTACTGGCGGAGCCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGG	997
Db		944 AGTGTGCGCACTGGCGCAGCCGCGAGTGCATGGCACC GCCGCCAAGACGGAGGCCGTG	1003
Qy		998 AGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCAGTGACCTCTGTGTACACAGTG	1057
Db		1004 ACTGCAGCGGGACGCTACTTGACTCCAAGAACTGCACCGATGGGCTGTGCGTGTGAATC	1063
Qy		1058 CTTCTGGCC-----CTGAGGACGTGGCCCTCT	1084
Db		1064 AGAGAACTCTAAACGACCCTAAAGCCGCCCCCTGGAGCCGTGCGGAGACGTGGCGCTGT	1123
Qy		1085 ATGTGGGCCTC---ATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTGTCTCATCC	1141
Db		1124 ATGCGGGCCTCGTGGTGGCCGTCTTTGTGGTTCTGGCAGTTCTCATGGCTGTAGGAGTGA	1183
Qy		1142 TCCTTTATTGCCGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATT---C	1198
Db		1184 TCGTGTACCGGAGAACTGCCGGGACTTCGACACGGACATCACTGACTCCTCTGCTGCC	1243
Qy		1199 TCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGC	1258
Db		1244 TCACTGGTGGTTTTCCACCCCGTCAACTTCAAGACTGCAAGGCCCAGCAACCCACAGCTCC	1303
Qy		1259 T-----CACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCT	1312
Db		1304 TGACCCCATCCGCCCTCCGGACCTAACGGCCAGTGTGGCATCTACCGCGGACCTGTGT	1363
Qy		1313 GTCCCCGGCAGGA-----TG	1327
Db		1364 ATGCCCTGCAGGACTCTGCCGACAAGATCCCTATGACTAATTCACCCCTTCTGGATCCCT	1423
Qy		1328 GGCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCC-----CCTGG	1378
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Qy		1379 GTGGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCT	1438
Db		1484 CTGATGGAGCCGACCTGCTGGGTGTCTTACCACCCGGTACATAACCCAGGCGATTTCTCCC	1543
Qy		1439 CCCGCCTCTCCACCCAGAAC-----TACTTCCGCTCCC	1471
Db		1544 GGGACACCCACTTCCTGCACCTGCGCAGCGCCAGCCTTGGTTCCAGCACCTCCTGGGCC	1603

Qy	1472	TGCCCCGAGGCACCCAGCAACATGACCTATGGGACCTTCAACTTCTCGGGGGCCGGCTGA	1531
Db	1604	TCCCTCGAGACCCAGCAGCAGTGTGAGTGGCACCTTGGTTGCCTGGGTGGGAGGCTGA	1663
Qy	1532	TGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGATGCCATACCCCGAGGGAAGA	1591
Db	1664	CCATTCCCGGCACAGGGGTGAGCCTGTTGGTACCAAATGGAGCCATTCCCCAGGGCAAGT	1723
Qy	1592	TCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGACGTGAGGTTGCCCCCTAGCTGGCT	1651
Db	1724	TCTATGACTTGTATCTACGTATCAACAAGACTGAAAGCACCCCTCCCACTTTCGGAAGGTT	1783
Qy	1652	GTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCCCCCTGGCGTCTGCTCACCCGGC	1711
Db	1784	CCCAGACAGTATTGAGCCCCCTCGGTGACCTGCGGGCCACGGGCCTCCTCCTGTGCCGCC	1843
Qy	1712	CAGTCATCCTGGCTATGGACCACTGTGGGGAGCCAGCCCTGACAGCTGGAGCCTGCGCC	1771
Db	1844	CTGTTGTCTCACTGTGCCCCACTGTGCTGAAGTCATTGCCGGAGACTGGATCTTCCAGC	1903
Qy	1772	TCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATGTGCTGCACCTGGGCGAGGAGGCGC	1831
Db	1904	TCAAGACCCAGGCCCATCAGGGCCACTGGGAGGAGGTGGTGACTTTGGATGAGGAGACTC	1963
Qy	1832	CCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCCTGCTACGTCTTACCGAGCAGC	1891
Db	1964	TGAACACCCCCCTGCTACTGCCAGCTAGAGGCTAAATCCTGCCACATCCTGTTGGACCAGC	2023
Qy	1892	TGGGCCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCCGCCAAGCGCCTCAAGC	1951
Db	2024	TGGGTACCTACGTGTTACGGGCGAGTCCTACTCCCGCTCCGAGTCAAGCGGCTCCAGC	2083
Qy	1952	TGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAGTACAACATCCGGGTCTACTGCC	2011
Db	2084	TAGCCATCTTCGCCCCAGCCCTCTGCACCTCCCTGGAGTATAGTCTCAGGGTCTACTGTC	2143
Qy	2012	TGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAGCTGGAGAAGCAGCTGGGGGGAC	2071
Db	2144	TGGAGGACACTCCTGCAGCACTGAAGGAGGTCCTAGAGCTGGAGAGGACTCTGGGTGGCT	2203
Qy	2072	AGCTGATCCAGGAGCCACGGGTCTCTGCACTTCAAGGACAGTTACCACAACCTGCGCCTAT	2131
Db	2204	ACTTGGTGGAGGAGCCCAAGACTTTGCTCTTTAAGGACAGTTACCACAACCTACG-CTCT	2262
Qy	2132	CCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTAAGCTCCTTGTGAGCTACCAGGAGA	2191
Db	2263	CCCTCCATGACATCCCCCATGCCCACTGGAGGAGCAAACTACTGGCCAAGTACCAGGAGA	2322
Qy	2192	TCCCCCTTTTATCACATCTGGAATGGCACGCAGCGGTACTTGCAGTGCACCTTCAACCCTGG	2251
Db	2323	TTCCCTTCTACCATGTGTGGAACGGCAGCCAGAAAGCCCTGCACTGCACTTTCACCCTGG	2382
Qy	2252	AGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCAAGCTGTGGGTGTGGCAGGTGGAGG	2311
Db	2383	AGAGACATAGCCTAGCCTCCACTGAGTTCACCTGTAAGGTCTGCGTGCGGCAGGTAGAAG	2442
Qy	2312	GCGACGGGGCAGAGCTTCAGCATCAACTTCAACATCAC---CAAGGACACAAGGTTTGCTG	2368

Db	2443	GGGAAGGCCAGATTTTCCAGCTGCACACCACGCTGGCTGAGACGCCTGCTGGCTCCCTGG	2502
Qy	2369	AGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCCCTGGTGGGCCCCAGTGCCTTCA	2428
Db	2503	ATGCACTCTGCTCTGCCCCCTGGCAATGCTGCCACCACACAGCTGGGACCCTATGCCTTCA	2562
Qy	2429	AGATCCCCTTCCTCATTGGCAGAAGATAATTTCCAGCCTGGACCCACCCTGTAGGCGGG	2488
Db	2563	AGATAACCACTGTCCATCCGCCAGAAGATCTGCAACAGCCTGGACGCCCCCAACTCACGGG	2622
Qy	2489	GTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTGGACAGCCATCTCAGCTTCTTTG	2548
Db	2623	GCAATGACTGGCGGCTGTTGGCACAGAAGCTCTCCATGGACCGGTACCTGAACACTTCTCG	2682
Qy	2549	CCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTGTGGGAGGCGCGGCACTTCCCCA	2608
Db	2683	CCACCAAAGCTAGTCCCACAGGCGTGATCTTAGACCTCTGGGAAGCTCGGCAGCAGGATG	2742
Qy	2609	ACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGACTGGGCCAGCCAGACGCTGGCC	2668
Db	2743	ATGGGGACCTCAACAGCCTGGCCAGTGCCTTGGAGGAGATGGGCAAGAGTGAGATGCTGG	2802
Qy	2669	TCTTCACAGTGTCTGGAGGCTGAGTGCTGA	2697
Db	2803	TAGCCATGACCACTGATGGCGATTGCTGA	2831

RESULT 6

US-09-306-902A-3

; Sequence 3, Application US/09306902A

; Patent No. 6277585

; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc

; Leonardo, E. David

; Hink, Lindsay

; Masu, Masayuki

; Kazuko, Keino-Masu

; TITLE OF INVENTION: Netrin Receptors

; NUMBER OF SEQUENCES: 9

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP

; STREET: 268 BUSH STREET, SUITE 3200

; CITY: SAN FRANCISCO

; STATE: CALIFORNIA

; COUNTRY: USA

; ZIP: 94104

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/306,902A

; FILING DATE: 07-May-1999

; CLASSIFICATION: <Unknown>

; ATTORNEY/AGENT INFORMATION:



```

;          NAME: OSMAN, RICHARD A
;          REGISTRATION NUMBER: 36,627
;          REFERENCE/DOCKET NUMBER: UC96-217
;          TELECOMMUNICATION INFORMATION:
;          TELEPHONE: (415) 343-4341
;          TELEFAX: (415) 343-4342
;          INFORMATION FOR SEQ ID NO: 3:
;          SEQUENCE CHARACTERISTICS:
;              LENGTH: 2831 base pairs
;              TYPE: nucleic acid
;              STRANDEDNESS: double
;              TOPOLOGY: linear
;          MOLECULE TYPE: cDNA
;          SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-306-902A-3

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Query Match          31.2%;  Score 841.4;  DB 3;  Length 2831;
Best Local Similarity 60.0%;  Pred. No. 8.4e-182;
Matches 1638;  Conservative 0;  Mismatches 961;  Indels 130;  Gaps 9;

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Db      104 ACTCCTTCCCATCAGCACCCGCGGAGCAGCTGCCTCACTTCCTGCTGGAACCAGAGGATG 163

Qy      158 TGTACATCGTCAAGAACAAGCCAGTGCTGCTTGTGTGCAAGGCCGTGCCCGCCACGCAGA 217
      || | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      164 CCTACATCGTAAAGAACAAGCCAGTGGAATTGCACTGCCGAGCCTTCCCTGCCACACAGA 223

Qy      218 TCTTCTTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCA 277
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Db      224 TCTACTTCAAGTGTAATGGCGAGTGGGTTAGCCAGAAAGGCCACGTACGCAGGAGAGCC 283

Qy      278 CAGACGGGAGCAGTGGGCTGCCCACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGG 337
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Db      284 TGGATGAGGCCACAGGCTTGCGAATACGAGAGGTGCAGATAGAGGTGTCGCGGCAGCAGG 343

Qy      338 TCGAGAAGGTGTTCGGGCTGGAGGAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGG 397
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Db      344 TGGAGGAACCTTTTGGGCTCGAGGACTACTGGTGTGAGTGCGTGGCCTGGAGCTCTTCGG 403

Qy      398 GCACCACCAAGAGTCAGAAGGCCTACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGC 457
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Db      404 GAACCACCAAGAGTCGCCGAGCCTACATCCGCATTGCCCTACTTGCGCAAGAACTTTGACC 463

Qy      458 AGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCAC 517
      || | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      464 AGGAGCCTCTGGCGAAGGAGGTACCCTTGGATCATGAGGTCCTTCTGCAGTGCCGCCCAC 523

Qy      518 CGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGT 577
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Db      524 CAGAGGGAGTGCCTGTGGCTGAGGTGGAATGGCTCAAGAATGAAGATGTCATCGATCCCG 583

Qy      578 CCCTGGACCCCAATGTATACATCACGCGGGAGCACAGCCTGGTGGTGCAGACAGGCCCGCC 637
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Db      584 CTCAGGACACTAACTTCCTGCTCACCATTGACCACAACCTCATCATCCGCCAGGCGCGCC 643

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Db 644 TCTCAGACACAGCCAACCTACACCTGTGTGGCAAAGAATATTGTGGCCAAGCGCCGGAGCA 703  
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 Qy 878 CCCTGTGCCCAGTAGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGG 937  
 Db 884 CCGTGTGCCCAGTGGATGGAGCGTGGACTGAGTGGAGCAAGTGGTCCGCCTGCAGCACAG 943  
 Qy 938 ACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGG 997  
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 Qy 998 AGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCAGTGACCTCTGTGTACACAGTG 1057  
 Db 1004 ACTGCAGCGGGACGCTACTTGACTCCAAGAACTGCACCGATGGGCTGTGCGTGTGAATC 1063  
 Qy 1058 CTTCTGGCC-----CTGAGGACGTGGCCCTCT 1084  
 Db 1064 AGAGAACTCTAAACGACCCTAAAAGCCGCCCCCTGGAGCCGTCGGGAGACGTGGCGCTGT 1123  
 Qy 1085 ATGTGGGCCTC---ATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCC 1141  
 Db 1124 ATGCGGGCCTCGTGGTGGCCGTCTTTGTGTTCTGGCAGTTCTCATGGCTGTAGGAGTGA 1183  
 Qy 1142 TCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATT---C 1198  
 Db 1184 TCGTGTACCGGAGAACTGCCGGGACTTCGACACGGACATCACTGACTCCTCTGCTGCCC 1243  
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 Qy 1259 T-----CACCATCCAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCT 1312  
 Db 1304 TGCACCCATCCGCCCTCCGGACCTAACGGCCAGTGCTGGCATCTACCGCGGACCTGTGT 1363  
 Qy 1313 GTCCCCGGCAGGA-----TG 1327  
 Db 1364 ATGCCCTGCAGGACTCTGCCGACAAGATCCCTATGACTAATTACCCCTTCTGGATCCCT 1423  
 Qy 1328 GGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCC-----CCTGG 1378  
 Db 1424 TGCCCAGCCTCAAGATCAAGGTCTATGACTCCAGCACCATCGGCTCTGGGGCTGGCCTGG 1483  
 Qy 1379 GTGGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCT 1438

Db	1484	CTGATGGAGCCGACCTGCTGGGTGTCTTACCACCCGGTACATAACCCAGGCCGATTTCCTCCC	1543
Qy	1439	CCCCCCTCTCCACCCAGAAC-----TACTTCCGCTCCC	1471
Db	1544	GGGACACCCACTTCCTGCACCTGCGCAGCGCCAGCCTTGTTCCAGCACCTCCTGGGCC	1603
Qy	1472	TGCCCCGAGGCACCAGCAACATGACCTATGGGACCTTCAACTTCCTCGGGGGCCGGCTGA	1531
Db	1604	TCCCTCGAGACCCAGCAGCAGTGTGAGTGGCACCTTTGGTTGCCTGGGTGGGAGGCTGA	1663
Qy	1532	TGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGATGCCATACCCGAGGGAAGA	1591
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Db	1664	CCATTCGCGGCACAGGGGTGAGCCTGTTGGTACCAAATGGAGCCATTCCCAGGGCAAGT	1723
Qy	1592	TCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGACGTGAGGTTGCCCTAGCTGGCT	1651
Db	1724	TCTATGACTTGTATCTACGTATCAACAAGACTGAAAGCACCCCTCCCACTTTCGGAAGGTT	1783
Qy	1652	GTCAGACCTGCTGAGTCCCATCGTTAGCTGTGGACCCCTGGCGTCTGCTCACCCGGC	1711
Db	1784	CCCAGACAGTATTGAGCCCCCTCGGTGACCTGCGGGCCACGGGCTCCTCCTGTGCCGCC	1843
Qy	1712	CAGTCATCCTGGCTATGGACCACTGTGGGGAGCCAGCCCTGACAGCTGGAGCCTGCGCC	1771
Db	1844	CTGTTGTCCTCACTGTGCCCCACTGTGCTGAAGTCATTGCCGGAGACTGGATCTTCCAGC	1903
Qy	1772	TCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATGTGCTGCACCTGGGCGAGGAGGCGC	1831
Db	1904	TCAAGACCCAGGCCCATCAGGGCCACTGGGAGGAGGTGGTGACTTTGGATGAGGAGACTC	1963
Qy	1832	CCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCCTGCTACGTCTTACCGAGCAGC	1891
Db	1964	TGAACACCCCTGTACTGTCCAGCTAGAGGCTAAATCCTGCCACATCCTGTTGGACCAGC	2023
Qy	1892	TGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCCGCCAAGCGCCTCAAGC	1951
Db	2024	TGGGTACCTACGTGTTACGGGCGAGTCCTACTCCCGCTCCGCAGTCAAGCGGCTCCAGC	2083
Qy	1952	TGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAGTACAACATCCGGGTCTACTGCC	2011
Db	2084	TAGCCATCTTCGCCCCAGCCCTCTGCACCTCCCTGGAGTATAGTCTCAGGGTCTACTGTC	2143
Qy	2012	TGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAGCTGGAGAAGCAGCTGGGGGGAC	2071
Db	2144	TGGAGGACACTCCTGCAGCACTGAAGGAGGTCTTAGAGCTGGAGAGGACTCTGGGTGGCT	2203
Qy	2072	AGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGGACAGTTACCACAACCTGCGCCTAT	2131
Db	2204	ACTTGGTGGAGGAGCCCAAGACTTTGCTCTTTAAGGACAGTTACCACAACCTACG-CTCT	2262
Qy	2132	CCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTAAGCTCCTTGTCAGCTACCAGGAGA	2191
Db	2263	CCCTCCATGACATCCCCCATGCCACTGGAGGAGCAAATACTGGCCAAGTACCAGGAGA	2322
Qy	2192	TCCCTTTTTATCACATCTGGAATGGCACGCAGCGGTACTTGCACCTGCACCTTCACCCTGG	2251
Db	2323	TTCCCTTCTACCATGTGTGGAACGGCAGCCAGAAAGCCCTGCACCTGCACCTTCACCCTGG	2382

Qy 2252 AGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCAAGCTGTGGGTGTGGCAGGTGGAGG 2311  
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 Db 2383 AGAGACATAGCCTAGCCTCCACTGAGTTCACCTGTAAGGTCTGCGTGCGGCAGGTAGAAG 2442  
 Qy 2312 GCGACGGGCAGAGCTTCAGCATCAACTTCAACATCAC---CAAGGACACAAGGTTTGCTG 2368  
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 Db 2443 GGGGAAGGCCAGATTTTCCAGCTGCACACCACGCTGGCTGAGACGCCTGCTGGCTCCCTGG 2502  
 Qy 2369 AGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCCCTGGTGGGCCCCAGTGCCTTCA 2428  
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 Db 2503 ATGCACTCTGCTCTGCCCCTGGCAATGCTGCCACCACACAGCTGGGACCCTATGCCTTCA 2562  
 Qy 2429 AGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAGCCTGGACCCACCCTGTAGGCGGG 2488  
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 Db 2563 AGATAACCACTGTCCATCCGCCAGAAGATCTGCAACAGCCTGGACGCCCCCAACTCACGGG 2622  
 Qy 2489 GTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTGGACAGCCATCTCAGCTTCTTTG 2548  
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 Db 2623 GCAATGACTGGCGGCTGTTGGCACAGAAGCTCTCCATGGACCGGTACCTGAAGTACTTCTG 2682  
 Qy 2549 CCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTGTGGGAGGCGCGGCACTTCCCCA 2608  
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 Db 2683 CCACCAAAGCTAGTCCCACAGGCGTGATCTTAGACCTCTGGGAAGCTCGGCAGCAGGATG 2742  
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 Db 2743 ATGGGGACCTCAACAGCCTGGCCAGTGCCTTGGAGGAGATGGGCAAGAGTGAGATGCTGG 2802  
 Qy 2669 TCTTCACAGTGTGCGGAGGCTGAGTGCTGA 2697  
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 Db 2803 TAGCCATGACCACTGATGGCGATTGCTGA 2831

# RESULT 7

US-09-949-016-4794

; Sequence 4794, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

; FILE REFERENCE: CL001307

; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768

; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231,498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 4794

; LENGTH: 3008

; TYPE: DNA

; ORGANISM: Human  
US-09-949-016-4794

Query Match 30.9%; Score 833.6; DB 4; Length 3008;  
Best Local Similarity 62.1%; Pred. No. 5.1e-180;  
Matches 1435; Conservative 0; Mismatches 814; Indels 63; Gaps 5;

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Qy      440 TGC GCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGCATCG 499
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      10 TACGGAAGACATTTGAGCAGGAACCCCTAGGAAAGGAAGTGTCTTTGGAACAGGAAGTCT 69

Qy      500 TGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGGAACG 559
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      70 TACTCCAGTGTGACACCTGAAGGGATCCCAGTGGCTGAGGTGGAATGGTTGAAAAATG 129

Qy      560 AGGACCTGGTGGACCCGTCCTGGACCCCAATGTATACATCACGCGGGAGCACAGCCTGG 619
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      130 AAGACATAATTGATCCCGTTGAAGATCGGAATTTTTATATTACTATTGATCACAACTCA 189

Qy      620 TGGTGC GACAGGCCCGCCTTGCTGACACGGCCAAC TACACCTGCGTGGCCAAGAACATCG 679
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      190 TCATAAAGCAGGCCCGACTCTCTGATACTGCAAATTACACCTGTGTTGCCAAAAACATTG 249

Qy      680 TGGCACGTCGCCGCAGCGCCTCCGCTGCTGTCATCGTCTACGTGAACGGTGGGTGGTCCA 739
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      250 TTGCCAAGAGGAAAAGTACAAC TGCCACTGT CATAGTCTATGTCAACGGTGGCTGGTCCA 309

Qy      740 CGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGGAGCC 799
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Db      310 CCTGGACGGAGTGGTCTGTGTGTAACAGCCGCTGTGGACGAGGGTATCAGAAACGTACAA 369

Qy      800 GGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCAGAATGTCC 859
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      370 GGACTTGTACCAACCCGGCACC ACTCAATGGGGGTGCCTTCTGTGAAGGGCAGAGTGTGC 429

Qy      860 AGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGCTGGAGCCCGTGGAGCAAGT 919
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Db      430 AGAAAATAGCCTGTACTACGTTATGCCAGTGGATGGCAGGTGGACGCCATGGAGCAAGT 489

Qy      920 GGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGTCTGACCCAGCAC 979
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Db      490 GGTCTACTTGTGGAAC TGAAGTGCACCCACTGGCGCAGGAGGGAGTGCACGGCGCCAGCCC 549

Qy      980 CCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCAAGT 1039
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Db      550 CCAAGAATGGAGGCAAGGACTGCGACGGCCTCGTCTTGCAATCCAAGAACTGCACTGATG 609

Qy      1040 ACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGG---CCTCA 1096
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Db      610 GGCTTTGCATGCAGACTGCTCCTGATT CAGATGATGTTGCTCTCTATGTTGGGATTGTGA 669

Qy      1097 TCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCTCGTTTATTGCCGGA 1156
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Db      670 TAGCAGTGATCGTTTGCCTGGCGATCTCTGTAGTTGTGGCCTTGTTTGTGTATCGGAAGA 729

Qy      1157 AGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCAGGCTTCCAGC 1216
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Db 730 ATCATCGTGACTTTGAGTCAGATATTATTGACTCTTCGGCACTCAATGGGGGCTTTCAGC 789  
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 Db 790 CTGTGAACATCAAG-----GCAGCAAGACAAGATCTGCTGGCTGTACCCCCAGACC 840  
 Qy 1277 TCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGATG-----GGCC 1331  
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 Db 841 TCACGTCAGCTGCAGCCATGTACAGAGGACCTGTCTATGCCCTGCATGACGTCTCAGACA 900  
 Qy 1332 CAGCCCCAAGTTCCAGCTCACCAAT----GGGCACCTGCTCAGCCCCCTGGGTGGCGGCC 1387  
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 Db 901 AAATCCCAATGACCAACTCTCCAATTCTGGATCCACTGCCCAACCTGAAAATCAAAGTGT 960  
 Qy 1388 GCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCT 1447  
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 Db 961 ACAACACCTCAGGTGCTGTCAACCCCCAAGATGACCTCTCTGAGTTTACGTCCAAGCTGT 1020  
 Qy 1448 CCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGA----- 1495  
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 Db 1021 CCCCTCAGATGACCCAGTCGTTGTTGGAGAATGAAGCCCTCAGCCTGAAGAACCAGAGTC 1080  
 Qy 1496 -----CCTATGGGACCTTCAACTTCCTCGGGGGCC 1525  
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 Db 1081 TAGCAAGGCAGACTGATCCATCCTGTACCGCATTGCGCAGCTTCAACTCGCTGGGAGGTC 1140  
 Qy 1526 GGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGATGCCATAACCCGAG 1585  
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 Db 1141 ACCTTATTGTTCCAATTGAGGAGTCAGCTTGCTGATTCCCGCTGGGGCCATTCCCCAAG 1200  
 Qy 1586 GGAAGATCTATGAGATCTACCTCAGCTGCACAAGCCGGAAGACGTGAGGTTGCCCTAG 1645  
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 Db 1201 GGAGAGTCTACGAAATGTATGTGACTGTACACAGGAAAGAACTATGAGGCCACCCATGG 1260  
 Qy 1646 CTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCCCCTGGCGTCTGCTCA 1705  
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 Db 1261 ATGACTCTCAGACACTTTTGACCCCTGTGGTGTGAGCTGTGGGGCCCCAGGAGCTCTGCTCA 1320  
 Qy 1706 CCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCAGCCCTGACAGCTGGAGCC 1765  
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 Db 1321 CCCGCCCAGTCGTCTCTACTATGCATCACTGCGCAGACCCCAATACCGAGGACTGGAAAA 1380  
 Qy 1766 TCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATGTGCTGCACCTGGGCGAGG 1825  
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 Db 1381 TACTGCTCAAGAACCAGGCAGCACAGGGACAGTGGGAGGATGTGGTGGTGGTGGGGAGG 1440  
 Qy 1826 AGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCCTGCTACGTCTTCACCG 1885  
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 Db 1441 AAAACTTCACCACCCCTGCTACATTGAGCTGGATGCAGAGGCCTGCCACATCCTCACAG 1500  
 Qy 1886 AGCAGCTGGGCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCCGCCAAGCGCC 1945  
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 Db 1501 AGAACCTCAGCACCTACGCCCTGGTAGGACATTCCACCACCAAAGCGGCTGCGAAGCGCC 1560  
 Qy 1946 TCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAGTACAACATCCGGGTCT 2005  
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 Db 1561 TCAAGCTGGCCATCTTTGGGCCCTGTGCTGCTCCTCGCTGGAGTACAGCATCCGAGTCT 1620



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; TITLE OF INVENTION: No. 6777232e1 Human Membrane Proteins and Polynucleotides
Encoding the Same
; FILE REFERENCE: LEX-0244-USA
; CURRENT APPLICATION NUMBER: US/09/969,532
; CURRENT FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US 60/237,280
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 2736
; TYPE: DNA
; ORGANISM: homo sapiens
US-09-969-532-9
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Db 697 GCAGCCAACATCGTGGCTAAGAGGAGAAGCCTGTCGGCCACTGTTGTGGTCTACGTGGAT 756  
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 Db 757 GGGAGCTGGGAAGTGTGGAGCGAATGGTCCGTCTGCAGTCCAGAGTGTGA-----A 807  
 Qy 787 CAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAG 846  
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 Db 808 CATTTGCGGATCCGGGAGTGCACAGCACCACCCCGAGAAATGGGGGCAAATTCTGTGAA 867  
 Qy 847 GGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGCTGGAGC 906  
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 Db 928 CTTTCATGAAATAAAACCCCAAAGCATTGAGAATGCCAGCGACATTGCTTTGTACTCGGGC 987  
 Qy 967 TCTGACCCAGCACCCTCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGC 1026  
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 Db 988 TTGGGTGCTGCCGTGCTGGCCGTTGCAGTCTTGGTCATTGGTGTCAACCTTTACAGACGG 1047  
 Qy 1027 AACTGTACCAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTAT 1086  
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 Db 1048 AGCCAGAGTGACTATGGCGTGGACGTCAATTGACTCTTCTGCATTGACAGGTGGCTTCCA- 1106  
 Qy 1087 GTGGGCCCTCATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTGCTTGTCTCTCATCTCGTT 1146  
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 Db 1107 --GACCTTCAACTTCAAAACAGTCCGTCAAGCCAAGAATATCATGGAAC TAATGATACAA 1164  
 Qy 1147 TATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCA 1206  
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 Db 1165 GAAAAATCCTTTGGTAACCTCCCTGCTCCTGAATTCTGCCATGCAGCCAGATCTGACAGTG 1224  
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 Db 1225 AGCCGGACATACAGCGGACCCATCTGTCTGCAGGACCTCTGGACAAGGAGCTCATGACA 1284  
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 Db 1285 GAGTCCTCACTCTTTAACCTTTGTGCGACATCAAAGTGAAAGTCCAGAGCTCGTTTCATG 1344  
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 Db 1345 GTTTCCTTGGGAGTGTCTGAGAGAGCTGAGTACCACGGCAAGAATCATTCAGGACTTTT 1404  
 Qy 1387 CGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTC 1446  
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 Db 1405 CCCCATGGAAACAACCACAGCTTTAGTACAATGCATCCCAGAAATAAAATGCCCTACATC 1464  
 Qy 1447 TCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACC 1506  
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 Qy 1507 TTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCC 1566  
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 Db 1516 TTTGGCCATTTAGGGGGGCGCTTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACCA 1575

Qy 1567 CCAGATGCCATACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAA 1626  
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Qy 1687 CCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCC 1746  
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Qy 1807 GTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAGGCCAGT 1866  
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Qy 1867 GCCTGCTACGTCTTCACCGAGCAGCTGGGCGCCTTTGCCCTGGTGGGAGAGGCCCTCAGC 1926  
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 Db 1867 GCGTGTGATGTGCTCCTGGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACA 1926

Qy 1927 GTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTC 1986  
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Qy 1987 GAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTG 2046  
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 Db 1987 GATTACAACCTTGAGAGTTTACTGTGTGGACAATACCCCTTGTGCATTTTCAGGAAGTGGTT 2046

Qy 2047 CAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACCTTCAAG 2106  
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 Db 2047 TCAGATGAAAGGCATCAAGGTGGACAGCTCCTGGAAGAACCAAAATTGCTGCATTTCAA 2106

Qy 2107 GACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAGAGT 2166  
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 Db 2107 GGAATACCTTTAGTCTTCAGATTTCTGTCTTGATATTCCCCCATTCTCTGGAGAATT 2166

Qy 2167 AAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGG 2226  
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Qy 2227 TACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGC 2286  
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 Db 2227 CCCCTGCACTGTGCCTTCTCCCTGGAGCGTTATACGCCCACTACCACCCAGCTGTCTGC 2286

Qy 2287 AAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATC 2346  
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Qy 2347 ACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCC 2406  
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Qy      2407 CTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAGC 2466
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Qy      2467 CTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTG 2526
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Db      2467 TTTGATACCCCAATGCCAAAGGCAAGGACTGGCAGATGTTAGCACAGAAAAACAGCATC 2526

Qy      2527 GACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTG 2586
        ||||   || |   |   || || |   |   ||||   | | |   | | |||||
Db      2527 AACAGGAATTTATCTTATTTTCGCTACACAAAGTAGCCCATCTGCTGTCATTTTGAACCTG 2586

Qy      2587 TGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGA 2646
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Db      2587 TGGGAAGCTCGTCATCAGCATGATGGTGATCTTGACTCCCTGGCCTGTGCCCTTGAAGAG 2646

Qy      2647 CTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAG 2691
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Db      2647 ATGGGAGGACACACAGAACTCTCAAACATTTCAGAATCCCAG 2691

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# RESULT 9

US-09-969-532-33

; Sequence 33, Application US/09969532

; Patent No. 6777232

; GENERAL INFORMATION:

; APPLICANT: Walke, D. Wade

; APPLICANT: Scoville, John

; TITLE OF INVENTION: No. 6777232e1 Human Membrane Proteins and Polynucleotides Encoding the Same

; FILE REFERENCE: LEX-0244-USA

; CURRENT APPLICATION NUMBER: US/09/969,532

; CURRENT FILING DATE: 2001-10-02

; PRIOR APPLICATION NUMBER: US 60/237,280

; PRIOR FILING DATE: 2000-10-02

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 33

; LENGTH: 3411

; TYPE: DNA

; ORGANISM: homo sapiens

US-09-969-532-33

Query Match 18.1%; Score 487; DB 4; Length 3411;

Best Local Similarity 50.9%; Pred. No. 4.4e-101;

Matches 1305; Conservative 0; Mismatches 1230; Indels 30; Gaps 5;

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Qy      127 CTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCAGTGCTG 186
        | | | | | | | | | | | | | | | | | | | | | | | | |
Db      271 CTGCCTCATTTCATAGAGGAGCCAGATGATGCTTATATTATCAAGAGCAACCCTATTGCA 330

Qy      187 CTTGTGTGCAAGGCCGTGCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAGTGGGTG 246
        | |   |||||   | |   || | |||||   |||||   |||||   |||||
Db      331 CTCAGGTGCAAAGCGAGGCCAGCCATGCAGATATTCTTCAAATGCAACGGCGAGTGGGTC 390

Qy      247 CGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCCAACATG 306
        |   || |   || ||||   ||   |   |||| ||||   || |   |

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Db 391 CATCAGAACGAGCACGTCTCTGAAGAGACTCTGGACGAGAGCTCAGGTTTGAAGGTCCGC 450  
 Qy 307 GAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGCGAGAAGGTGTTCCGGGCTGGAGGAATAC 366  
 || || ||| |||| | |||| |||| || | | ||| |||| ||  
 Db 451 GAAGTGTTTCATCAATGTTACTAGGCAACAGGTGGAGGACTTCCATGGGCCCAGGACTAT 510  
 Qy 367 TGGTGCCAGTGCCTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCCTACATC 426  
 ||||| |||| |||| | || ||| |||| ||||| || |  
 Db 511 TGGTGCCAGTGTGTGGCGTGGAGCCACCTGGGTACCTCCAAGAGCAGGAAGGCCTCTGTG 570  
 Qy 427 CGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCCTG 486  
 ||||| || || || |||| | || || | | | | || || || ||  
 Db 571 CGCATAGCCTATTTACGGAAAACTTTGAACAAGACCCACAAGGAAGGGAAGTTCCCATT 630  
 Qy 487 GAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAGGTGGAG 546  
 || || || |||| |||| |||| |||| |||| | ||||| ||||  
 Db 631 GAAGGCATGATTGTACTGCACTGCCGCCACCAGAGGGAGTCCCTGCTGCCGAGGTGGAA 690  
 Qy 547 TGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATCACGCGG 606  
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 Db 691 TGGCTGAAAAATGAAGAGCCCATTGACTCTGAACAAGACGAGAATTTGACACCAGGGCT 750  
 Qy 607 GAGCACAGCCTGGTGGTGCGACAGGCCCGCCTTGCTGACACGGCCAATACACCTGCGTG 666  
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 Db 751 GACCATAACCTGATCATCAGGCAGGCACGGCTCTCGGACTCAGGAAATTACACCTGCATG 810  
 Qy 667 GCCAAGAACATCGTGGCACGTGCGCGCAGCGCCTCCGCTGCTGTCATCGTCTACGTGAAC 726  
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 Db 811 GCAGCCAACATCGTGGCTAAGAGGAGAAGCCTGTCGGCCACTGTTGTGGTCTACGTGGAT 870  
 Qy 727 GGTGGGTGGTGCAGCTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGG 786  
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 Db 871 GGGAGCTGGGAAGTGTGGAGCGAATGGTCCGTCTGCAGTCCAGAGTGTGA-----A 921  
 Qy 787 CAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAG 846  
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 Db 922 CATTTGCGGATCCGGGAGTGCACAGCACCCCGAGAAATGGGGGCAATTCTGTGAA 981  
 Qy 847 GGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGCAGCTGGAGC 906  
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 Db 982 GGTCTAAGCCAGGAATCTGAAACTGCACAGATGGTCTTTGCATCCTAGATAAAAAACCT 1041  
 Qy 907 CCGTGGAGCAAGTGGTGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGC 966  
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 Db 1042 CTTTCATGAAATAAAACCCCAAAGCATTGAGAATGCCAGCGACATTGCTTTGTACTCGGGC 1101  
 Qy 967 TCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGC 1026  
 | | | || | || | | | | | | | || || || ||  
 Db 1102 TTGGGTGCTGCCGTCTGGCCGTTGCAGTCCTGGTCATTGGTGTACCCTTTACAGACGG 1161  
 Qy 1027 AACTGTACAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTAT 1086  
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 Db 1162 AGCCAGAGTGACTATGGCGTGGACGTATTGACTCTTCTGCATTGACAGGTGGCTTCCA- 1220  
 Qy 1087 GTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCCTCGTT 1146  
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 Db 1221 --GACCTTCAACTTCAAAACAGTCCGTCAAGCCAAGAATATCATGGAATAATGATACAA 1278

Qy 1147 TATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCA 1206  
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 Db 1279 GAAAAATCCTTTGGTAACTCCCTGCTCCTGAATTCTGCCATGCAGCCAGATCTGACAGTG 1338  
 Qy 1207 GGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACCATC 1266  
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 Db 1339 AGCCGGACATACAGCGGACCCATCTGTCTGCAGGACCCTCTGGACAAGGAGCTCATGACA 1398  
 Qy 1267 CAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGAT 1326  
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 Db 1399 GAGTCCTCACTCTTTAACCTTTGTCTGGACATCAAAGTGAAAGTCCAGAGCTCGTTCATG 1458  
 Qy 1327 GGGCCAGCCCCAAGTTCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGC 1386  
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 Db 1459 GTTTCCTGGGAGTGTCTGAGAGAGCTGAGTACCACGGCAAGAATCATTCAGGACTTTT 1518  
 Qy 1387 CGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTC 1446  
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 Db 1519 CCCCATGGAAACAACCACAGCTTTAGTACAATGCATCCAGAAATAAAATGCCCTACATC 1578  
 Qy 1447 TCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACC 1506  
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 Db 1579 CAAAATCTGTC-----ATCACTCCCCACAAGGACAGAACTGAGGACAACCTGGTGTCT 1629  
 Qy 1507 TTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCC 1566  
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 Db 1630 TTTGGCCATTTAGGGGGGCGCTTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACCA 1689  
 Qy 1567 CCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAA 1626  
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 Db 1690 CACGGTGCCATCCAGAGGAGAATTCTTGGGAGATTTATATGTCCAT---CAACCAAGGT 1746  
 Qy 1627 GACGTGAGGTTGCCCCTAGCTGGCTGTGAGACCCTGCTGAGTCCCATCGTTAGCTGTGGA 1686  
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 Db 1747 GAACCCAGCCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAGTCCTGAAGTCACCTGTGGT 1806  
 Qy 1687 CCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCC 1746  
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 Db 1807 CCTCCAGACATGATCGTCACCACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTC 1866  
 Qy 1747 AGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGAT 1806  
 || | | | | | | | | | | | | | | | |  
 Db 1867 AGTTCCTGAGCATTTGGAATATCCATTTAAAGAAGAGGACACAGCAGGGCAAATGGGAGGAA 1926  
 Qy 1807 GTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAGGCCAGT 1866  
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 Db 1927 GTGATGTCAGTGGAAGATGAATCTACATC-----CTGTTACTGCCTTTTGGACCCCTTT 1980  
 Qy 1867 GCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGC 1926  
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 Db 1981 GCGTGTCTATGTGCTCCTGGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACA 2040  
 Qy 1927 GTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTC 1986  
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 Db 2041 GACTGTGCCGTGAAGCAACTGAAGGTGGCGGTTTTTGGCTGCATGTCCTGTAACCTCCCTG 2100

Qy 1987 GAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTG 2046  
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 Db 2101 GATTACAACCTTGAGAGTTTACTGTGTGGACAATACCCCTTGTGCATTTTCAGGAAGTGGTT 2160

Qy 2047 CAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTTGCATTCAAG 2106  
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 Db 2161 TCAGATGAAAGGCATCAAGGTGGACAGCTCCTGGAAGAACCAAAATTGCTGCATTTCAA 2220

Qy 2107 GACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGT 2166  
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 Db 2221 GGAATACCTTTAGTCTTCAGATTTCTGTCTTGATATCCCCCATTCTCTGGAGAATT 2280

Qy 2167 AAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCAGCGCAGCGG 2226  
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 Db 2281 AAACCATTCACTGCCTGCCAGGAAGTCCCGTTCTCCCGCGTGTGGTGCAGTAACCGGCAG 2340

Qy 2227 TACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGC 2286  
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 Db 2341 CCCCTGCACTGTGCCTTCTCCCTGGAGCGTTATACGCCCACTACCACCCAGCTGTCTGC 2400

Qy 2287 AAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATC 2346  
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 Db 2401 AAAATCTGCATTCCGCAGCTCAAAGGCCATGAACAGATCCTCCAAGTGCAGACATCAATC 2460

Qy 2347 ACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCC 2406  
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 Db 2461 CTAGAGAGTGAACGAGAAACCATCACTTTCTTCGCACAAGAGGACAGCACTTTCCCTGCA 2520

Qy 2407 CTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAGC 2466  
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 Db 2521 CAGACTGGCCCCAAAGCCTTCAAATTCCTACTCCATCAGACAGCGGATTTGTGCTACA 2580

Qy 2467 CTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCAGAACTCCACCTG 2526  
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 Db 2581 TTTGATACCCCAATGCCAAAGGCAAGGACTGGCAGATGTTAGCACAGAAAAACAGCATC 2640

Qy 2527 GACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTG 2586  
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 Db 2641 AACAGGAATTTATCTTATTTTCGCTACACAAAGTAGCCCATCTGCTGTCATTTTGAACCTG 2700

Qy 2587 TGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGA 2646  
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 Db 2701 TGGGAAGCTCGTCATCAGCATGATGGTGATCTTGACTCCCTGGCCTGTGCCCTTGAAGAG 2760

Qy 2647 CTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGCGAGGCTGAG 2691  
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 Db 2761 ATTGGGAGGACACACGAACTCTCAAACATTTTCAGAATCCCAG 2805

RESULT 10

US-09-969-532-11

; Sequence 11, Application US/09969532

; Patent No. 6777232

; GENERAL INFORMATION:

; APPLICANT: Walke, D. Wade

; APPLICANT: Scoville, John



Db 697 GCAGCCAACATCGTGGCTAAGAGGAGAAGCCTGTGCGCCACTGTTGTGGTCTACGTGGAT 756  
 Qy 727 GGTGGGTGGTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGG 786  
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 Db 757 GGGAGCTGGGAAGTGTGGAGCGAATGGTCCGTCTGCAGTCCAGAGTGTG-----AA 807  
 Qy 787 CAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAG 846  
 || ||| ||| |||| ||| || || || ||||| |||||  
 Db 808 CATTTGCGGATCCGGGAGTGCACAGCACCACCCCGAGAAATGGGGGCAAATTCTGTGAA 867  
 Qy 847 GGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGCTGGAGC 906  
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 Db 868 GGTCTAAGCCAGGAATCTGAAACTGCACAGATGGTCTTTGCATCCTAGGCATTGAGAAT 927  
 Qy 907 CCGTGGAGCAAGTGGTGGCGCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGC 966  
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 Db 928 GCCAGCGACATTGCTTTGTACTCGGGCTTGG-----GTGC 962  
 Qy 967 TCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGC 1026  
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 Db 963 TGCCGTCGTGGCCGTTGCAGTCCTGGTCATTGGTGTCAACCTTTACAGACGGA----- 1015  
 Qy 1027 AACTGTACCACTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTAT 1086  
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 Db 1016 ----GCCAGAGTGACTATGGCGTGGACGTCATTGACTCTTCTGCATTGACAGGTGGCTTC 1071  
 Qy 1087 GTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTGCTTGTCTCATCTCGTT 1146  
 | ||| | | |||| | || | | | | | | | |  
 Db 1072 CAGACCTTCAACTTCAAAACAGTCCGTCAAGCCAAGAATATCATGGAATAATGATACAA 1131  
 Qy 1147 TATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCA 1206  
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 Db 1132 GAAAAATCCTTTGGTAACTCCCTGCTCCTGAATTCTGCCATGCAGCCAGATCTGACAGTG 1191  
 Qy 1207 GGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCATCTGCTCACCATC 1266  
 || | | | || | | | ||| |||||  
 Db 1192 AGCCGGACATACAGCGGACCCATCTGTCTGCAGGACCCTCTGGACAAGGAGCTCATGACA 1251  
 Qy 1267 CAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGAT 1326  
 || | ||| ||| ||| | | ||| | |||  
 Db 1252 GAGTCCTCACTCTTTAACCTTTGTGCGGACATCAAAGTGAAAGTCCAGAGCTCGTTCATG 1311  
 Qy 1327 GGGCCAGCCCCAAGTTCCAGCTACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGC 1386  
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 Db 1312 GTTTCCTGGGAGTGTCTGAGAGAGCTGAGTACCACGGCAAGAATCATTCCAGGACTTTT 1371  
 Qy 1387 CGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTC 1446  
 | ||| | ||||| || || | || | ||| |||  
 Db 1372 CCCCATGGAAACAACCACAGCTTTAGTACAATGCATCCCAGAAATAAAATGCCCTACATC 1431  
 Qy 1447 TCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACC 1506  
 | | | ||||| || || || || || || ||  
 Db 1432 CAAAATCTGTC-----ATCACTCCCCACAAGGACAGAAGTGAAGGACAAGTGGTGTG 1482  
 Qy 1507 TTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCC 1566  
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 Db 1483 TTTGGCCATTTAGGGGGGCGCTTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACCA 1542



Qy 1567 CCAGATGCCATACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAA 1626  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1543 CACGGTGCCATCCCAGAGGAGAATTCTTGGGAGATTTATATGTCCAT---CAACCAAGGT 1599

Qy 1627 GACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGA 1686  
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 Db 1600 GAACCCAGCCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAGTCCTGAAGTCACCTGTGGT 1659

Qy 1687 CCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCC 1746  
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 Db 1660 CCTCCAGACATGATCGTCACCACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTC 1719

Qy 1747 AGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGAT 1806  
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 Db 1720 AGTTCTGAGCATTGGAATATCCATTTAAAGAAGAGGACACAGCAGGGCAAATGGGAGGAA 1779

Qy 1807 GTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAGGCCAGT 1866  
 || | | | | | | | | | | | | | | | | | | | | |  
 Db 1780 GTGATGTCAGTGGAAGATGAATCTACATC-----CTGTTACTGCCTTTTGGACCCCTTT 1833

Qy 1867 GCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGC 1926  
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 Db 1834 GCGTGTCATGTGCTCCTGGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACA 1893

Qy 1927 GTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTC 1986  
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 Db 1894 GACTGTGCCGTGAAGCAACTGAAGGTGGCGGTTTTTGGCTGCATGTCTGTAACCTCCCTG 1953

Qy 1987 GAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTG 2046  
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 Db 1954 GATTACAACCTTGAGAGTTTACTGTGTGGACAATACCCCTTGTGCATTTTCAGGAAGTGGTT 2013

Qy 2047 CAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACCTTCAAG 2106  
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 Db 2014 TCAGATGAAAGGCATCAAGGTGGACAGCTCCTGGAAGAACCAAAATTGCTGCATTTCAA 2073

Qy 2107 GACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAGAGT 2166  
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 Db 2074 GGGAATACCTTTAGTCTTCAGATTTCTGTCTTGATATCCCCCATTCCTCTGGAGAATT 2133

Qy 2167 AAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGG 2226  
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 Db 2134 AAACCATTCACCTGCCTGCCAGGAAGTCCCGTTCTCCCGCGTGTGGTGCAGTAACCGGCAG 2193

Qy 2227 TACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGC 2286  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 2194 CCCCTGCACTGTGCCTTCTCCCTGGAGCGTTATACGCCCACTACCACCCAGCTGTCTGC 2253

Qy 2287 AAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATC 2346  
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 Db 2254 AAAATCTGCATTCGGCAGCTCAAAGGCCATGAACAGATCCTCCAAGTGCAGACATCAATC 2313

Qy 2347 ACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCC 2406  
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 Db 2314 CTAGAGAGTGAACGAGAAACCATCACTTTCTTCGCACAAGAGGACAGCACTTTCCTGCA 2373



Db	277	CATCAGAACGAGCACGTCTCTGAAGAGACTCTGGACGAGAGCTCAGGTTTGAAGGTC	336
Qy	307	GAGGTCCGCATTAATGTCTCAAGGCAGCAGGTCGAGAAAGTGTTCTGGGCTGGAGGAATAC	366
Db	337	GAAGTGTTTCATCAATGTTACTAGGCAACAGGTGGAGGACTTCCATGGGCCCAGGACTAT	396
Qy	367	TGGTGCCAGTGCCTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAAGGCTACATC	426
Db	397	TGGTGCCAGTGTGTGGCGTGGAGCCACCTGGGTACCTCCAAGAGCAGGAAGGCTCTGTG	456
Qy	427	CGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCCTG	486
Db	457	CGCATAGCCTATTTACGGAAAACTTTGAACAAGACCCACAAGGAAGGGAAGTTCCCAT	516
Qy	487	GAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAGGTGGAG	546
Db	517	GAAGGCATGATTGTACTGCACTGCCGCCACCAGAGGGAGTCCCTGCTGCCGAGGTGGAA	576
Qy	547	TGGCTCCGGAACGAGGACCTGGTGGACCCGTCCTGGACCCCAATGTATACATCACGCGG	606
Db	577	TGGCTGAAAAATGAAGAGCCCATTGACTCTGAACAAGACGAGAACATTGACACCAGGGCT	636
Qy	607	GAGCACAGCCTGGTGGTGCGACAGGCCCGCCTTGCTGACACGGCCAACTACACCTGCGTG	666
Db	637	GACCATAACCTGATCATCAGGCAGGCACGGCTCTCGGACTCAGGAAATTACACCTGCATG	696
Qy	667	GCCAAGAACATCGTGGCACGTCGCCGACGCGCTCCGCTGCTGTATCGTCTACGTGAAC	726
Db	697	GCAGCCAACATCGTGGCTAAGAGGAGAAGCCTGTGCGCCACTGTTGTGGTCTACGTGGAT	756
Qy	727	GGTGGGTGGTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGG	786
Db	757	GGGAGCTGGGAAGTGTGGAGCGAATGGTCCGTCTGCAGTCCAGAGTGTG-----AA	807
Qy	787	CAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAG	846
Db	808	CATTTGCGGATCCGGGAGTGCACAGCACCACCCCGAGAAATGGGGGCAAATTCTGTGAA	867
Qy	847	GGGCAGAAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGCTGGAGC	906
Db	868	GGTC--TAAGCCAGGAATCTGAAACTGCACAGATGGTCTTTGCATCCTAGATAAAAAAC	925
Qy	907	CCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGC	966
Db	926	CTCTTCATGAAATAAAACCCCAAAGCATTGAG----AATGCCAGCGACATTGCTTTGTAC	981
Qy	967	TCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGC	1026
Db	982	TCGGGCTTGGGTGCTGCCGTCTGGCCGTGTCAGTCCCTGGTCATTGGTGT-----CACC	1035
Qy	1027	AACTGTACCAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTAT	1086
Db	1036	CTTTACAGACGGAGCCAGAGTGACTATGGCGTGGACGTCATTGACTCTTCTGCATTGACA	1095
Qy	1087	GTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTTGTCTCATCCTCGTT	1146
Db	1096	GGTGGCTTCCAGACCTTCAACTTCAAAACAGTCCGTCAAGGTAAGTCCCTGCTCCTGAAT	1155

Qy 1147 TATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCA 1206  
 | | | | | | | | | | | | | | | | | |  
 Db 1156 TCTGCCATGCA-----GCCAGATCTGACAGTGAGCCGGACATACAGCGGACCCATCT 1207

Qy 1207 GGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACCATC 1266  
 | | | | | | | | | | | | | | | | | |  
 Db 1208 GTCTGCAGGACCCTCTGGACAAGG---AGCTCATGACAGAGTCCTCACTCTTTAACCTT 1264

Qy 1267 CAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGAT 1326  
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 Db 1265 TGTCGGACATCAAAGTGAAAGTCCAGAGCTCGTTCATGGTTTCCCTGGGAGTGTCTGAGA 1324

Qy 1327 GGGCCAGCCCCAAGTTCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGC 1386  
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 Db 1325 GAGCTGAGTACCAAGGCAAGAATCATTCCAGGACTTTT----- 1362

Qy 1387 CGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTC 1446  
 | | | | | | | | | | | | | | | | | |  
 Db 1363 CCCCATGGAAACAACCACAGCTTTAGTACAATGCATCCAGAAATAAAATGCCCTACATC 1422

Qy 1447 TCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACC 1506  
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 Db 1423 CAAAATCTG-----TCATCACTCCCCACAAGGACAGAAGTGAAGGACAAGTGGTGTG 1473

Qy 1507 TTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCC 1566  
 | | | | | | | | | | | | | | | | | |  
 Db 1474 TTTGGCCATTTAGGGGGCGCTTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACCA 1533

Qy 1567 CCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAA 1626  
 | | | | | | | | | | | | | | | | | |  
 Db 1534 CACGGTGCCATCCAGAGGAGAATTCTTGGGAGATTTATATGTCCAT---CAACCAAGGT 1590

Qy 1627 GACGTGAGGTTGCCCCTAGCTGGCTGTGAGACCCTGCTGAGTCCCATCGTTAGCTGTGGA 1686  
 | | | | | | | | | | | | | | | | | |  
 Db 1591 GAACCCAGCCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAGTCCTGAAGTCACCTGTGGT 1650

Qy 1687 CCCCCTGGCGTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCC 1746  
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 Db 1651 CCTCCAGACATGATCGTCACCACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTC 1710

Qy 1747 AGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGAT 1806  
 | | | | | | | | | | | | | | | | | |  
 Db 1711 AGTTCTGAGCATTGGAATATCCATTTAAAGAAGAGGACACAGCAGGGCAAATGGGAGGAA 1770

Qy 1807 GTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAGGCCAGT 1866  
 | | | | | | | | | | | | | | | | | |  
 Db 1771 GTGATGTCAGTGGAAGATGAATCTACATC-----CTGTTACTGCCTTTTGGACCCCTTT 1824

Qy 1867 GCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGC 1926  
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 Db 1825 GCGTGTGATGTGCTCCTGGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACA 1884

Qy 1927 GTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGGCGCCGGTGGCCTGCACCTCCCTC 1986  
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 Db 1885 GACTGTGCCGTGAAGCAACTGAAGGTGGCGGTTTTTGGCTGCATGTCCTGTAACCTCCCTG 1944

Qy 1987 GAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTG 2046  
 || ||||| | | || ||||| || | |||| | ||| |||||  
 Db 1945 GATTACAACCTTGAGAGTTTACTGTGTGGACAATACCCCTTGTGCATTTTCAGGAAGTGGTT 2004

Qy 2047 CAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACTTCAAG 2106  
 || | ||| | || ||||| | | || ||| | ||||| |||||  
 Db 2005 TCAGATGAAAGGCATCAAGGTGGACAGCTCCTGGAAGAACCAAAATTGCTGCATTTCAA 2064

Qy 2107 GACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGT 2166  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 2065 GGAATACCTTTAGTCTTCAGATTTCTGTCTTGATATCCCCCATTCCTCTGGAGAATT 2124

Qy 2167 AAGCTCCTTGTGCTAGCTACCAGGAGATCCCCCTTTTATCACATCTGGAATGGCAGCGAGCGG 2226  
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 Db 2125 AAACCATTCACTGCCTGCCAGGAAGTCCCGTTCTCCGCGTGTGGTGCAGTAACCGGCAG 2184

Qy 2227 TACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGC 2286  
 | ||||| ||||| ||||| || | |||| | | | | | |||||  
 Db 2185 CCCCTGCACTGTGCCTTCTCCCTGGAGCGTTATACGCCCACTACCACCCAGCTGTCTGC 2244

Qy 2287 AAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATC 2346  
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 Db 2245 AAAATCTGCATTCGGCAGCTCAAAGGCCATGAACAGATCCTCCAAGTGCAGACATCAATC 2304

Qy 2347 ACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCC 2406  
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 Db 2305 CTAGAGAGTGAACGAGAAACCATCACTTTCTTCGCACAAGAGGACAGCACTTTCCCTGCA 2364

Qy 2407 CTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAGC 2466  
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 Db 2365 CAGACTGGCCCCAAAGCCTTCAAATTCCTACTCCATCAGACAGCGGATTTGTGCTACA 2424

Qy 2467 CTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTG 2526  
 | || | || | || ||||| || | || ||||| | | |  
 Db 2425 TTTGATACCCCAATGCCAAAGGCAAGGACTGGCAGATGTTAGCACAGAAAAACAGCATC 2484

Qy 2527 GACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTG 2586  
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 Db 2485 AACAGGAATTTATCTTATTTTCGCTACACAAAGTAGCCCATCTGCTGTCATTTTGAACCTG 2544

Qy 2587 TGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGA 2646  
 |||| | || || | | || | || | |||| | || | |  
 Db 2545 TGGGAAGCTCGTCATCAGCATGATGGTGATCTTGACTCCCTGGCCTGTGCCCTTGAAGAG 2604

Qy 2647 CTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGCGGAGGCTGAG 2691  
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 Db 2605 ATTGGGAGGACACACGAACTCTCAAACATTTCAGAATCCCAG 2649

RESULT 12

US-09-969-532-15

; Sequence 15, Application US/09969532

; Patent No. 6777232

; GENERAL INFORMATION:

; APPLICANT: Walke, D. Wade

; APPLICANT: Scoville, John



Db 697 GCAGCCAACATCGTGGCTAAGAGGAGAAGCCTGTGCGCCACTGTTGTGGTCTACGTGGAT 756  
 Qy 727 GGTGGGTGGTTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGG 786  
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 Db 757 GGGAGCTGGGAAGTGTGGAGCGAATGGTCCGTCTGCAGTCCAGAGTGTG-----AA 807  
 Qy 787 CAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAG 846  
 || ||| ||| |||| ||| || || || ||||| |||||  
 Db 808 CATTTGCGGATCCGGGAGTGCACAGCACCACCCCGAGAAATGGGGGCAAATTCTGTGAA 867  
 Qy 847 GGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGCTGGAGC 906  
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 Db 868 GGTCTAAGCCAGGAATCTGAAACTGCACAGATGGTCTTTGCATCCTAGGCATTGAGAAT 927  
 Qy 907 CCGTGGAGCAAGTGGTGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGC 966  
 | | | | | | || || || || ||  
 Db 928 GCCAGCGACATTGCTTTGTACTCGGGCTTGG----- 958  
 Qy 967 TCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGC 1026  
 | | | | | | | | | | | | | | | |  
 Db 959 -----GTGCTGCCGTGCTGGCCGTTGCAGTCCTGGTCATTGGTGTCAAC 1002  
 Qy 1027 AACTGTACCAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTAT 1086  
 | | | | || || | | | | | || |  
 Db 1003 CTTTACAGACGGAGCCAGAGTGACTATGGCGTGGACGTCATTGACTCTTCTGCATTGACA 1062  
 Qy 1087 GTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTGCTTGTCTCATCTCGTT 1146  
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 Db 1063 GGTGGCTTCCAGACCTTCAACTTCAAAACAGTCCGTCAAGGTAACCTCCCTGCTCCTGAAT 1122  
 Qy 1147 TATTGCCGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCA 1206  
 | | | | | | | | | | | | | | | |  
 Db 1123 TCTGCCATGCA-----GCCAGATCTGACAGTGAGCCGGACATACAGCGGACCCATCT 1174  
 Qy 1207 GGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACCATC 1266  
 | ||| | ||| || | | || | | | | | | ||| |  
 Db 1175 GTCTGCAGGACCCTCTGGACAAGG---AGCTCATGACAGAGTCCTCACTCTTTAACCTT 1231  
 Qy 1267 CAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGAT 1326  
 | | | | | ||| | | |||| | |||  
 Db 1232 TGTCGGACATCAAAGTGAAAGTCCAGAGCTCGTTTCATGGTTTCCCTGGGAGTGTCTGAGA 1291  
 Qy 1327 GGGCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGC 1386  
 | || || ||| | || | || | |  
 Db 1292 GAGCTGAGTACCACGGCAAGAATCATTCCAGGACTTTT----- 1329  
 Qy 1387 CGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTC 1446  
 | ||| | ||||| || | | | | | || | ||  
 Db 1330 CCCCATGGAACAACCACAGCTTTAGTACAATGCATCCAGAAATAAAATGCCCTACATC 1389  
 Qy 1447 TCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACC 1506  
 | | | | ||| ||| | | | | ||| ||| |  
 Db 1390 CAAATCTGT-----CATCACTCCCCACAAGGACAGAACTGAGGACAACCTGGTGTG 1440  
 Qy 1507 TTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCC 1566  
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 Db 1441 TTTGGCCATTTAGGGGGCGCTTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACCA 1500

Qy 1567 CCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAA. 1626  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1501 CACGGTGCCATCCCAGAGGAGAATTCTTGGGAGATTTATATGTCCAT---CAACCAAGGT 1557

Qy 1627 GACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGA 1686  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1558 GAACCCAGCCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAGTCCTGAAGTCACCTGTGGT 1617

Qy 1687 CCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCC 1746  
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 Db 1618 CCTCCAGACATGATCGTCACCACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTC 1677

Qy 1747 AGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGAT 1806  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1678 AGTTCTGAGCATTGGAATATCCATTTAAAGAAGAGGACACAGCAGGGCAAATGGGAGGAA 1737

Qy 1807 GTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAGGCCAGT 1866  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1738 GTGATGTCAGTGGAAGATGAATCTACATC-----CTGTTACTGCCTTTTGGACCCCTTT 1791

Qy 1867 GCCTGCTACGTCTTCACCGAGCAGCTGGGCGCCTTTGCCCTGGTGGGAGAGGCCCTCAGC 1926  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1792 GCGTGTCATGTGCTCCTGGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACA 1851

Qy 1927 GTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTC 1986  
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 Db 1852 GACTGTGCCGTGAAGCAACTGAAGGTGGCGGTTTTTTGGCTGCATGTCTGTAACCTCCCTG 1911

Qy 1987 GAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTG 2046  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1912 GATTACAACCTTGAGAGTTTACTGTGTGGACAATACCCCTTGTGCATTTTCAGGAAGTGGTT 1971

Qy 2047 CAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACCTTCAAG 2106  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1972 TCAGATGAAAGGCATCAAGGTGGACAGCTCCTGGAAGAACCAAAATTGCTGCATTTCAA 2031

Qy 2107 GACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAGAGT 2166  
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 Db 2032 GGGAATACCTTTAGTCTTCAGATTTCTGTCTTGATATCCCCCATTCCTCTGGAGAATT 2091

Qy 2167 AAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGG 2226  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 2092 AAACCATTCACTGCCTGCCAGGAAGTCCCGTTCTCCGCGTGTGGTGCAGTAACGGGCAG 2151

Qy 2227 TACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGC 2286  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 2152 CCCCTGCACTGTGCCTTCTCCCTGGAGCGTTATACGCCCACTACCACCCAGCTGTCTGC 2211

Qy 2287 AAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATC 2346  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 2212 AAAATCTGCATTGCGCAGCTCAAAGGCCATGAACAGATCCTCCAAGTGCAGACATCAATC 2271

Qy 2347 ACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCC 2406  
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 Db 2272 CTAGAGAGTGAACGAGAAACCATCACTTTCTTCGCACAAGAGGACAGCACTTTCCTGCA 2331



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Qy      2407 CTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAGC 2466
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Db      2332 CAGACTGGCCCCAAAGCCTTCAAATTCCTACTCCATCAGACAGCGGATTTGTGCTACA 2391

Qy      2467 CTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTG 2526
        | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      2392 TTTGATACCCCCAATGCCAAAGGCAAGGACTGGCAGATGTTAGCACAGAAAAACAGCATC 2451

Qy      2527 GACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTG 2586
        | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      2452 AACAGGAATTTATCTTATTTTCGCTACACAAAGTAGCCCATCTGCTGTCATTTTGAACCTG 2511

Qy      2587 TGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGA 2646
        | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      2512 TGGGAAGCTCGTCATCAGCATGATGGTGATCTTGACTCCCTGGCCTGTGCCCTTGAAGAG 2571

Qy      2647 CTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAG 2691
        | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      2572 ATGGGAGGACACACACGAACTCTCAAACATTTCAGAATCCCAG 2616

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RESULT 13

US-09-471-276-345

```

; Sequence 345, Application US/09471276
; Patent No. 6822072
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6822072
; FILE REFERENCE: GENSET.025CP1
; CURRENT APPLICATION NUMBER: US/09/471,276
; CURRENT FILING DATE: 1999-12-21
; EARLIER APPLICATION NUMBER: 09/057,719
; EARLIER FILING DATE: 1998-04-09
; EARLIER APPLICATION NUMBER: 09/069,047
; EARLIER FILING DATE: 1998-04-28
; EARLIER APPLICATION NUMBER: PCT/IB99/00712
; EARLIER FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 1622
; SOFTWARE: Patent.pm
; SEQ ID NO 345
; LENGTH: 349
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 207..347
; NAME/KEY: sig_peptide
; LOCATION: 207..278
; OTHER INFORMATION: Von Heijne matrix
; OTHER INFORMATION: score 5.40000009536743
; OTHER INFORMATION: seq SCCCLSSSSFIAG/RR

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US-09-471-276-345

Query Match 12.0%; Score 323; DB 4; Length 349;

Best Local Similarity 98.8%; Pred. No. 4.4e-64;  
Matches 335; Conservative 1; Mismatches 2; Indels 1; Gaps 1;

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Qy      889 GTAGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCAC 948
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Db      12 GTGGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCAC 71

Qy      949 TGGCGGAGCCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGC 1008
      |||||
Db      72 TGGCGGA-CCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGC 130

Qy     1009 ACTGACCTGGACACCCGCAACTGTACCACTGACCTCTGTGTACACAGTGCTTCTGGCCCT 1068
      |||||
Db     131 ACTGACCTGGACACCCGCAACTGTACCACTGACCTCTGTGTACACACTGCTTCTGGCCCT 190

Qy     1069 GAGGACGTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTG 1128
      |||||
Db     191 GAGGACGTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCBTGGTCCTGCTGCTG 250

Qy     1129 CTTGTCTCATCTCGTTTATTGCCGGAAGAAGGAGGGGGCTGGACTCAGATGTGGCTGAC 1188
      |||||
Db     251 CTTGTCTCATCTCGTTTATTGCCGGAAGAAGGAGGGGGCTGGACTCAGATGTGGCTGAC 310

Qy     1189 TCGTCCATTCTCACCTCAGGCTTCCAGCCCGTCAGCATC 1227
      |||||
Db     311 TCGTCCATTCTCACCTCAGGCTTCCAGCCCGTCAGCATC 349
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#### RESULT 14

US-09-969-532-31

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; Sequence 31, Application US/09969532
; Patent No. 6777232
; GENERAL INFORMATION:
; APPLICANT: Walke, D. Wade
; APPLICANT: Scoville, John
; TITLE OF INVENTION: No. 6777232el Human Membrane Proteins and Polynucleotides
Encoding the Same
; FILE REFERENCE: LEX-0244-USA
; CURRENT APPLICATION NUMBER: US/09/969,532
; CURRENT FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US 60/237,280
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 31
; LENGTH: 1968
; TYPE: DNA
; ORGANISM: homo sapiens
US-09-969-532-31
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Query Match 10.9%; Score 293.2; DB 4; Length 1968;  
Best Local Similarity 53.7%; Pred. No. 4.9e-57;  
Matches 657; Conservative 0; Mismatches 558; Indels 9; Gaps 2;

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Qy     1468 TCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCTTCAACTTCCTCGGGGGCCGG 1527
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Db     709 TCACTCCCCACAAGGACAGAACTGAGGACAACCTGGTGTCTTTGGCCATTTAGGGGGGCGC 768
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Qy. 1528 CTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGATGCCATACCCCGAGGG 1587  
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 Db 769 TTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACCACACGGTGCCATCCCAGAGGAG 828

Qy 1588 AAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGACGTGAGGTTGCCCTAGCT 1647  
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 Db 829 AATTCTTGGGAGATTTATATGTCCATCAACCAAGGTGAACCC---AGCCTCCAGTCAGAT 885

Qy 1648 GGCTGTCAGACCCCTGCTGAGTCCCATCGTTAGCTGTGGACCCCTGGCGTCCTGCTCACC 1707  
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 Db 886 GGCTCTGAGGTGCTCCTGAGTCCTGAAGTCACCTGTGGTCTCCAGACATGATCGTCACC 945

Qy 1708 CGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCAGCCCTGACAGCTGGAGCCTG 1767  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 946 ACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTCAGTTCTGAGCATTGGAATATC 1005

Qy 1768 CGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATGTGCTGCACCTGGGCGAGGAG 1827  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1006 CATTTAAAGAAGAGGACACAGCAGGGCAAATGGGAGGAAGTGATGTCAGTGGAAGATGAA 1065

Qy 1828 GCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCCTGCTACGTCTTCACCGAG 1887  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1066 TCTACATC-----CTGTTACTGCCTTTTGGACCCCTTTGCGTGTGTCATGTGCTCCTGGAC 1119

Qy 1888 CAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCCGCCAAGCGCCTC 1947  
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 Db 1120 AGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACAGACTGTGCCGTGAAGCAACTG 1179

Qy 1948 AAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAGTACAACATCCGGGTCTAC 2007  
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 Db 1180 AAGGTGGCGGTTTTTGGCTGCATGTCTGTAACTCCCTGGATTACAACCTGAGAGTTTAC 1239

Qy 2008 TGCCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAGCTGGAGAAGCAGCTGGGG 2067  
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 Db 1240 TGTGTGGACAATACCCCTTGTGCATTTTCAAGGAGTGGTTTCAGATGAAAGGCATCAAGGT 1299

Qy 2068 GGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGGACAGTTACCACAACCTGCGC 2127  
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 Db 1300 GGACAGCTCCTGGAAGAACCAAAATTGCTGCATTTCAAAGGGAATACCTTTAGTCTTCAG 1359

Qy 2128 CTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTAAGCTCCTTGTGAGCTACCAG 2187  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1360 ATTTCTGTCTTGATATTCCCCCATTCCTCTGGAGAATTAAACCATTCAGTGCCTGCCAG 1419

Qy 2188 GAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGTACTTGCAGTGCACCTTCACC 2247...  
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 Db 1420 GAAGTCCCGTTCTCCCGCGTGTGGTGCAGTAACCGGCAGCCCTGCACTGTGCCTTCTCC 1479

Qy 2248 CTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCAAGCTGTGGGTGTGGCAGGTG 2307  
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 Db 1480 CTGGAGCGTTATACGCCCCTACCAACCCAGCTGTCTGCAAAATCTGCATTCGGCAGCTC 1539

Qy 2308 GAGGGCGACGGGCAGAGCTTCAAGCATCAACTTCAACATCACCAAGGACACAAGGTTTGCT 2367  
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 Db 1540 AAAGGCCATGAACAGATCCTCCAAGTGCAGACATCAATCCTAGAGAGTGAACGAGAAACC 1599

Qy 2368 GAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCCCTGGTGGGCCCCAGTGCCTTC 2427  
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 Db 1600 ATCACTTTCTTCGCACAAGAGGACAGCACTTTCCCTGCACAGACTGGCCCCAAAGCCTTC 1659

Qy 2428 AAGATCCCCTTCCTCATTCTGGCAGAAGATAATTTCCAGCCTGGACCCACCCTGTAGGCGG 2487  
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 Db 1660 AAAATTCCCTACTCCATCAGACAGCGGATTTGTGCTACATTTGATACCCCAATGCCAAA 1719

Qy 2488 GGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTGGACAGCCATCTCAGCTTCTTT 2547  
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 Db 1720 GGCAAGGACTGGCAGATGTTAGCACAGAAAAACAGCATCAACAGGAATTTATCTTATTTT 1779

Qy 2548 GCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTGTGGGAGGCGCGGCACTTCCCC 2607  
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 Db 1780 GCTACACAAAGTAGCCCATCTGCTGTCATTTTGAACCTGTGGGAAGCTCGTCATCAGCAT 1839

Qy 2608 AACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGACTGGGCCAGCCAGACGCTGGC 2667  
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 Db 1840 GATGGTGATCTTGACTCCCTGGCCTGTGCCCTTGAAGAGATTGGGAGGACACACACGAAA 1899

Qy 2668 CTCTTCACAGTGTCTGGAGGCTGAG 2691  
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 Db 1900 CTCTCAAACATTTTCAGAATCCAG 1923

# RESULT 15

US-09-969-532-29

; Sequence 29, Application US/09969532  
 ; Patent No. 6777232  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Walke, D. Wade  
 ; APPLICANT: Scoville, John  
 ; TITLE OF INVENTION: No. 6777232el Human Membrane Proteins and Polynucleotides  
 Encoding the Same  
 ; FILE REFERENCE: LEX-0244-USA  
 ; CURRENT APPLICATION NUMBER: US/09/969,532  
 ; CURRENT FILING DATE: 2001-10-02  
 ; PRIOR APPLICATION NUMBER: US 60/237,280  
 ; PRIOR FILING DATE: 2000-10-02  
 ; NUMBER OF SEQ ID NOS: 33  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 29  
 ; LENGTH: 2001  
 ; TYPE: DNA  
 ; ORGANISM: homo sapiens  
 US-09-969-532-29

Query Match 10.9%; Score 293.2; DB 4; Length 2001;  
 Best Local Similarity 53.7%; Pred. No. 4.9e-57;  
 Matches 657; Conservative 0; Mismatches 558; Indels 9; Gaps 2;

Qy 1468 TCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCTTCAACTTCCTCGGGGGCCGG 1527  
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 Db 742 TCACTCCCCACAAGGACAGAACTGAGGACAACCTGGTGTCTTTGGCCATTTAGGGGGGGCGC 801

Qy 1528 CTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGATGCCATACCCCGAGGG 1587  
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Db 802 TTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACCACACGGTGCCATCCCAGAGGAG 861  
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 Db 862 AATTCTTGGGAGATTTATATGTCCATCAACCAAGGTGAACCC---AGCCTCCAGTCAGAT 918  
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 Db 919 GGCTCTGAGGTGCTCCTGAGTCCTGAAGTCACCTGTGGTCCTCCAGACATGATCGTCACC 978  
 Qy 1708 CGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCAGCCCTGACAGCTGGAGCCTG 1767  
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 Db 979 ACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTCAGTTCTGAGCATTGGAATATC 1038  
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 Db 1039 CATTTAAAGAAGAGGACACAGCAGGGCAAATGGGAGGAAGTGATGTCAGTGGAAGATGAA 1098  
 Qy 1828 GCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCCTGCTACGTCTTCACCGAG 1887  
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 Db 1099 TCTACATC-----CTGTTACTGCCTTTTGGACCCCTTTGCGTGTGTCATGTGCTCCTGGAC 1152  
 Qy 1888 CAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCCGCCAAGCGCCTC 1947  
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 Db 1153 AGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACAGACTGTGCCGTGAAGCAACTG 1212  
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 Db 1213 AAGGTGGCGGTTTTTGGCTGCATGTCTGTAACCTCCCTGGATTACAACCTGAGAGTTTAC 1272  
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 Db 1393 ATTTCTGTCCTTGATATTCCCCATTCTCTGGAGAATTAAACCATTCACTGCCTGCCAG 1452  
 Qy 2188 GAGATCCCTTTTATCACATCTGGAATGGCACGCAGCGGTACTTGCAGTGCACCTTCACC 2247  
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 Db 1453 GAAGTCCCGTTCTCCCGCGTGTGGTGCAGTAACCGGCAGCCCTGCACTGTGCCTTCTCC 1512  
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 Db 1513 CTGGAGCGTTATACGCCCACTACCACCCAGCTGTCCTGCAAAATCTGCATTGCGCAGCTC 1572  
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 Db 1753 GGCAAGGACTGGCAGATGTTAGCACAGAAAAACAGCATCAACAGGAATTTATCTTATTTT 1812  
  
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 Db 1813 GCTACACAAAGTAGCCCATCTGCTGTCATTTTGAACCTGTGGGAAGCTCGTCATCAGCAT 1872  
  
 Qy 2608 AACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGACTGGGCCAGCCAGACGCTGGC 2667  
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 Db 1873 GATGGTGATCTTGACTCCCTGGCCTGTGCCCTTGAAGAGATTGGGAGGACACACACGAAA 1932  
  
 Qy 2668 CTCTTCACAGTGTCGGAGGCTGAG 2691  
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 Db 1933 CTCTCAAACATTTTCAGAATCCCAG 1956

Search completed: March 6, 2005, 10:24:58  
 Job time : 441.67 secs

OM nucleic - nucleic search, using sw model

Run on: March 6, 2005, 05:25:16 ; Search time 1458.63 Seconds  
(without alignments)  
10971.677 Million cell updates/sec

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Perfect score: 2697  
Sequence: 1 atggccgtccggcccgcct.....tgtcggaggctgagtgtga 2697

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 5401638 seqs, 2966923429 residues

Total number of hits satisfying chosen parameters: 10803276

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published\_Applications\_NA:\*

- 1: /cgn2\_6/ptodata/2/pubpna/US07\_PUBCOMB.seq:\*
- 2: /cgn2\_6/ptodata/2/pubpna/PCT\_NEW\_PUB.seq:\*
- 3: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq:\*
- 4: /cgn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq:\*
- 5: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq:\*
- 6: /cgn2\_6/ptodata/2/pubpna/PCTUS\_PUBCOMB.seq:\*
- 7: /cgn2\_6/ptodata/2/pubpna/US08\_NEW\_PUB.seq:\*
- 8: /cgn2\_6/ptodata/2/pubpna/US08\_PUBCOMB.seq:\*
- 9: /cgn2\_6/ptodata/2/pubpna/US09A\_PUBCOMB.seq:\*
- 10: /cgn2\_6/ptodata/2/pubpna/US09B\_PUBCOMB.seq:\*
- 11: /cgn2\_6/ptodata/2/pubpna/US09C\_PUBCOMB.seq:\*
- 12: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq:\*
- 13: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq:\*
- 14: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq:\*
- 15: /cgn2\_6/ptodata/2/pubpna/US10C\_PUBCOMB.seq:\*
- 16: /cgn2\_6/ptodata/2/pubpna/US10D\_PUBCOMB.seq:\*
- 17: /cgn2\_6/ptodata/2/pubpna/US10E\_PUBCOMB.seq:\*
- 18: /cgn2\_6/ptodata/2/pubpna/US10F\_PUBCOMB.seq:\*
- 19: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq:\*
- 20: /cgn2\_6/ptodata/2/pubpna/US11\_NEW\_PUB.seq:\*
- 21: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq:\*
- 22: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	% Query		Length	DB	ID	Description
	Score	Match				
1	2697	100.0	2752	10	US-09-918-779-1	Sequence 1, Appli
2	2697	100.0	2752	17	US-10-624-932-1	Sequence 1, Appli
3	2621.4	97.2	2881	10	US-09-970-944-1	Sequence 1, Appli
4	2343	86.9	3561	18	US-10-643-795A-77	Sequence 77, Appl
5	2343	86.9	3580	17	US-10-311-623-13	Sequence 13, Appl
6	2252.2	83.5	2697	16	US-10-240-154-15	Sequence 15, Appl
7	2252.2	83.5	3014	10	US-09-933-261-1	Sequence 1, Appli
8	2252.2	83.5	3014	14	US-10-256-702-1	Sequence 1, Appli
9	1552.4	57.6	1787	10	US-09-933-261-2	Sequence 2, Appli
10	1552.4	57.6	1787	14	US-10-256-702-2	Sequence 2, Appli
11	1200.6	44.5	1321	17	US-10-296-115-365	Sequence 365, App
12	936.2	34.7	2860	17	US-10-087-684-1	Sequence 1, Appli
13	936.2	34.7	2860	17	US-10-087-684-3	Sequence 3, Appli
14	936.2	34.7	2860	17	US-10-218-779-1	Sequence 1, Appli
15	936.2	34.7	2860	17	US-10-218-779-3	Sequence 3, Appli
16	912.2	33.8	2895	17	US-10-037-417-37	Sequence 37, Appl
17	902.6	33.5	3485	9	US-09-816-828-18	Sequence 18, Appl
18	901	33.4	3884	14	US-10-028-072-145	Sequence 145, App
19	901	33.4	3884	14	US-10-140-808-145	Sequence 145, App
20	901	33.4	3884	14	US-10-121-049-145	Sequence 145, App
21	901	33.4	3884	14	US-10-123-904-145	Sequence 145, App
22	901	33.4	3884	14	US-10-140-470-145	Sequence 145, App
23	901	33.4	3884	14	US-10-175-746-145	Sequence 145, App
24	901	33.4	3884	14	US-10-176-918-145	Sequence 145, App
25	901	33.4	3884	14	US-10-176-921-145	Sequence 145, App
26	901	33.4	3884	14	US-10-137-865-145	Sequence 145, App
27	901	33.4	3884	14	US-10-140-474-145	Sequence 145, App
28	901	33.4	3884	14	US-10-142-431-145	Sequence 145, App
29	901	33.4	3884	14	US-10-143-114-145	Sequence 145, App
30	901	33.4	3884	14	US-10-142-419-145	Sequence 145, App
31	901	33.4	3884	14	US-10-123-262-145	Sequence 145, App
32	901	33.4	3884	14	US-10-142-423-145	Sequence 145, App
33	901	33.4	3884	14	US-10-121-050-145	Sequence 145, App
34	901	33.4	3884	14	US-10-141-755-145	Sequence 145, App
35	901	33.4	3884	14	US-10-143-032-145	Sequence 145, App
36	901	33.4	3884	14	US-10-123-108-145	Sequence 145, App
37	901	33.4	3884	14	US-10-123-236-145	Sequence 145, App
38	901	33.4	3884	14	US-10-123-261-145	Sequence 145, App
39	901	33.4	3884	14	US-10-140-921-145	Sequence 145, App
40	901	33.4	3884	14	US-10-140-928-145	Sequence 145, App
41	901	33.4	3884	14	US-10-121-045-145	Sequence 145, App
42	901	33.4	3884	14	US-10-123-292-145	Sequence 145, App
43	901	33.4	3884	14	US-10-123-903-145	Sequence 145, App
44	901	33.4	3884	14	US-10-124-819-145	Sequence 145, App
45	901	33.4	3884	14	US-10-124-822-145	Sequence 145, App

## ALIGNMENTS

RESULT 1  
US-09-918-779-1



; Sequence 1, Application US/09918779  
; Publication No. US20030064369A1  
; GENERAL INFORMATION:  
; APPLICANT: Taupier, Raymond  
; APPLICANT: Padigaru, Muralidhara  
; APPLICANT: Rastelli, Luca  
; APPLICANT: Spaderna, Steven  
; APPLICANT: Shimkets, Richard  
; APPLICANT: Zerhusen, Bryan  
; APPLICANT: Spytek, Kimberly  
; APPLICANT: Shenoy, Suresh  
; APPLICANT: Li, Li  
; APPLICANT: Gusev, Vladimir  
; APPLICANT: Grosse, William  
; APPLICANT: Alsobrook, John  
; APPLICANT: Lepley, Denise  
; APPLICANT: Burgess, Catherine  
; APPLICANT: Gerlach, Valerie  
; APPLICANT: Ellerman, Karen  
; APPLICANT: MacDougall, John  
; APPLICANT: Stone, David  
; APPLICANT: Smithson, Glennda  
; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same  
; FILE REFERENCE: 21402-074 US  
; CURRENT APPLICATION NUMBER: US/09/918,779  
; CURRENT FILING DATE: 2001-07-30  
; PRIOR APPLICATION NUMBER: 60/221,409  
; PRIOR FILING DATE: 2000-07-28  
; PRIOR APPLICATION NUMBER: 60/222,840  
; PRIOR FILING DATE: 2000-08-04  
; PRIOR APPLICATION NUMBER: 60/223,752  
; PRIOR FILING DATE: 2000-08-08  
; PRIOR APPLICATION NUMBER: 60/223,762  
; PRIOR FILING DATE: 2000-08-08  
; PRIOR APPLICATION NUMBER: 60/223,770  
; PRIOR FILING DATE: 2000-08-08  
; PRIOR APPLICATION NUMBER: 60/223,769  
; PRIOR FILING DATE: 2000-08-08  
; PRIOR APPLICATION NUMBER: 60/225,146  
; PRIOR FILING DATE: 2000-08-14  
; PRIOR APPLICATION NUMBER: 60/225,392  
; PRIOR FILING DATE: 2000-08-15  
; PRIOR APPLICATION NUMBER: 60/225,470  
; PRIOR FILING DATE: 2000-08-15  
; PRIOR APPLICATION NUMBER: 60/225,697  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: 60/263,662  
; PRIOR FILING DATE: 2001-02-01  
; PRIOR APPLICATION NUMBER: 60/281,645  
; PRIOR FILING DATE: 2001-04-05  
; NUMBER OF SEQ ID NOS: 61  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 2752  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-918-779-1

Query Match 100.0%; Score 2697; DB 10; Length 2752;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2697; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	ATGGCCGTCCGGCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTC	60
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Qy	61	CGCGGCTCGGGTGGCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCG	120
Db	106	CGCGGCTCGGGTGGCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCG	165
Qy	121	GACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA	180
Db	166	GACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA	225
Qy	181	GTGCTGCTTGTGTGCAAGGCCGTGCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAG	240
Db	226	GTGCTGCTTGTGTGCAAGGCCGTGCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAG	285
Qy	241	TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC	300
Db	286	TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC	345
Qy	301	ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGCGAGAAGGTGTTCCGGGCTGGAG	360
Db	346	ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGCGAGAAGGTGTTCCGGGCTGGAG	405
Qy	361	GAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC	420
Db	406	GAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC	465
Qy	421	TACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTG	480
Db	466	TACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTG	525
Qy	481	TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAG	540
Db	526	TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAG	585
Qy	541	GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC	600
Db	586	GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC	645
Qy	601	ACGCGGGAGCACAGCCTGGTGGTGCGACAGGCCCGCCTTGCTGACACGGCCAACCTACACC	660
Db	646	ACGCGGGAGCACAGCCTGGTGGTGCGACAGGCCCGCCTTGCTGACACGGCCAACCTACACC	705
Qy	661	TGCGTGGCCAAGAACATCGTGGCACGTCGCCGCAGCGCCTCCGCTGCTGTCATCGTCTAC	720
Db	706	TGCGTGGCCAAGAACATCGTGGCACGTCGCCGCAGCGCCTCCGCTGCTGTCATCGTCTAC	765
Qy	721	GTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	780
Db	766	GTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	825

Qy	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	840
Db	826	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	885
Qy	841	TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGC	900
Db	886	TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGC	945
Qy	901	TGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	960
Db	946	TGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	1005
Qy	961	GAGTGC'TCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	1020
Db	1006	GAGTGC'TCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	1065
Qy	1021	ACCCGCAACTGTACCACTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC	1080
Db	1066	ACCCGCAACTGTACCACTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC	1125
Qy	1081	CTCTATGTGGGCCCTCATCGCCGTGGCCGTCTGCCTGGTCCCTGCTGCTGCTTGTCTCATC	1140
Db	1126	CTCTATGTGGGCCCTCATCGCCGTGGCCGTCTGCCTGGTCCCTGCTGCTGCTTGTCTCATC	1185
Qy	1141	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1200
Db	1186	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1245
Qy	1201	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTC	1260
Db	1246	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTC	1305
Qy	1261	ACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG	1320
Db	1306	ACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG	1365
Qy	1321	CAGGATGGGCCCAGCCCCAAGTTCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1380
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Qy	1561	ATCCCCCAGATGCCATAACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1620
Db	1606	ATCCCCCAGATGCCATAACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1665
Qy	1621	CCGGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1680

Db	1666	 CCGGAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1725
Qy	1681	TGTGGACCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1740
Db	1726	 TGTGGACCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1785
Qy	1741	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1800
Db	1786	 GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1845
Qy	1801	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAG	1860
Db	1846	 GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAG	1905
Qy	1861	GCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCC	1920
Db	1906	 GCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCC	1965
Qy	1921	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	1980
Db	1966	 CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	2025
Qy	1981	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2040
Db	2026	 TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2085
Qy	2041	GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	2100
Db	2086	 GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	2145
Qy	2101	TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGG	2160
Db	2146	 TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGG	2205
Qy	2161	AAGAGTAAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCAG	2220
Db	2206	 AAGAGTAAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCAG	2265
Qy	2221	CAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG	2280
Db	2266	 CAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG	2325
Qy	2281	GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC	2340
Db	2326	 GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC	2385
Qy	2341	AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTC	2400
Db	2386	 AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTC	2445
Qy	2401	CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT	2460
Db	2446	 CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT	2505
Qy	2461	TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTC	2520

Db 2506 TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTC 2565  
 Qy 2521 CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC 2580  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Db 2566 CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC 2625  
 Qy 2581 AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG 2640  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Db 2626 AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG 2685  
 Qy 2641 GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGA 2697  
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RESULT 2

US-10-624-932-1

; Sequence 1, Application US/10624932  
 ; Publication No. US20040096877A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Taupier, Raymond  
 ; APPLICANT: Padigaru, Muralidhara  
 ; APPLICANT: Rastelli, Luca  
 ; APPLICANT: Spaderna, Steven  
 ; APPLICANT: Shimkets, Richard  
 ; APPLICANT: Zerhusen, Bryan  
 ; APPLICANT: Spytek, Kimberly  
 ; APPLICANT: Shenoy, Suresh  
 ; APPLICANT: Li, Li  
 ; APPLICANT: Gusev, Vladimir  
 ; APPLICANT: Grosse, William  
 ; APPLICANT: Alsobrook, John  
 ; APPLICANT: Lepley, Denise  
 ; APPLICANT: Burgess, Catherine  
 ; APPLICANT: Gerlach, Valerie  
 ; APPLICANT: Ellerman, Karen  
 ; APPLICANT: MacDougall, John  
 ; APPLICANT: Stone, David  
 ; APPLICANT: Smithson, Glennnda  
 ; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same  
 ; FILE REFERENCE: 21402-074 US  
 ; CURRENT APPLICATION NUMBER: US/10/624,932  
 ; CURRENT FILING DATE: 2003-07-21  
 ; PRIOR APPLICATION NUMBER: 09/918,779  
 ; PRIOR FILING DATE: 2001-07-03  
 ; PRIOR APPLICATION NUMBER: 60/221,409  
 ; PRIOR FILING DATE: 2000-07-28  
 ; PRIOR APPLICATION NUMBER: 60/222,840  
 ; PRIOR FILING DATE: 2000-08-04  
 ; PRIOR APPLICATION NUMBER: 60/223,752  
 ; PRIOR FILING DATE: 2000-08-08  
 ; PRIOR APPLICATION NUMBER: 60/223,762  
 ; PRIOR FILING DATE: 2000-08-08  
 ; PRIOR APPLICATION NUMBER: 60/223,770  
 ; PRIOR FILING DATE: 2000-08-08  
 ; PRIOR APPLICATION NUMBER: 60/223,769  
 ; PRIOR FILING DATE: 2000-08-08

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; PRIOR APPLICATION NUMBER: 60/225,146
; PRIOR FILING DATE: 2000-08-14
; PRIOR APPLICATION NUMBER: 60/225,392
; PRIOR FILING DATE: 2000-08-15
; PRIOR APPLICATION NUMBER: 60/225,470
; PRIOR FILING DATE: 2000-08-15
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 2752
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-624-932-1
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Qy	601	ACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACTACACC	660
Db	646	ACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACTACACC	705
Qy	661	TGCGTGGCCAAGAATCGTGGCACGTCGCCGAGCGCCTCCGCTGCTGTCATCGTCTAC	720
Db	706	TGCGTGGCCAAGAATCGTGGCACGTCGCCGAGCGCCTCCGCTGCTGTCATCGTCTAC	765
Qy	721	GTGAACGGTGGGTGGTGCACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	780
Db	766	GTGAACGGTGGGTGGTGCACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	825
Qy	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	840
Db	826	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	885
Qy	841	TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGC	900
Db	886	TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGC	945
Qy	901	TGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	960
Db	946	TGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	1005
Qy	961	GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	1020
Db	1006	GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	1065
Qy	1021	ACCCGCAACTGTACCACTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC	1080
Db	1066	ACCCGCAACTGTACCACTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC	1125
Qy	1081	CTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATC	1140
Db	1126	CTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATC	1185
Qy	1141	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1200
Db	1186	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1245
Qy	1201	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCATCTGCTC	1260
Db	1246	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCATCTGCTC	1305
Qy	1261	ACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG	1320
Db	1306	ACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG	1365
Qy	1321	CAGGATGGGCCCAGCCCCAAGTTCCAGCTACCAATGGGCACCTGCTCAGCCCCCTGGGT	1380
Db	1366	CAGGATGGGCCCAGCCCCAAGTTCCAGCTACCAATGGGCACCTGCTCAGCCCCCTGGGT	1425
Qy	1381	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1440
Db	1426	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1485

Qy	1441	CGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1500
Db	1486	CGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1545
Qy	1501	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC	1560
Db	1546	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC	1605
Qy	1561	ATCCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1620
Db	1606	ATCCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1665
Qy	1621	CCGGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1680
Db	1666	CCGGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1725
Qy	1681	TGTGGACCCCTGGCGTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1740
Db	1726	TGTGGACCCCTGGCGTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1785
Qy	1741	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1800
Db	1786	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1845
Qy	1801	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAG	1860
Db	1846	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAG	1905
Qy	1861	GCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCC	1920
Db	1906	GCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCC	1965
Qy	1921	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	1980
Db	1966	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	2025
Qy	1981	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2040
Db	2026	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2085
Qy	2041	GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	2100
Db	2086	GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	2145
Qy	2101	TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGG	2160
Db	2146	TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGG	2205
Qy	2161	AAGAGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACG	2220
Db	2206	AAGAGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACG	2265
Qy	2221	CAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG	2280
Db	2266	CAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG	2325



Qy	2281	GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC	2340
Db	2326	GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC	2385
Qy	2341	AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTC	2400
Db	2386	AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTC	2445
Qy	2401	CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTGGCAGAAGATAATT	2460
Db	2446	CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTGGCAGAAGATAATT	2505
Qy	2461	TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCAGAAACTC	2520
Db	2506	TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCAGAAACTC	2565
Qy	2521	CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC	2580
Db	2566	CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC	2625
Qy	2581	AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG	2640
Db	2626	AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG	2685
Qy	2641	GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGGAGGCTGAGTGCTGA	2697
Db	2686	GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGGAGGCTGAGTGCTGA	2742

# RESULT 3

US-09-970-944-1

; Sequence 1, Application US/09970944

; Publication No. US20030204052A1

## ; GENERAL INFORMATION:

; APPLICANT: Herrman, John L

; APPLICANT: Rastelli, Luca

; APPLICANT: Shimkets, Richard A

; TITLE OF INVENTION: No. US20030204052A1el Proteins and Nucleic Acids Encoding Same and

; TITLE OF INVENTION: Antibodies Directed Against these Proteins

; FILE REFERENCE: 21402-138

; CURRENT APPLICATION NUMBER: US/09/970,944

; CURRENT FILING DATE: 2002-05-02

; PRIOR APPLICATION NUMBER: 60/237,862

; PRIOR FILING DATE: 2000-10-04

; NUMBER OF SEQ ID NOS: 62

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 1

; LENGTH: 2881

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-970-944-1

Query Match	97.2%;	Score 2621.4;	DB 10;	Length 2881;
Best Local Similarity	98.9%;	Pred. No. 0;		
Matches 2673;	Conservative	0;	Mismatches 21;	Indels 9;
			Gaps	3;

Qy	1	ATGGCCGTCCGGCCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTC	60
Db	87	ATGGCCGTCCGGCCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTC	146
Qy	61	CGCGGCTCGGGTGCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCG	120
Db	147	CGCGGCTCGGGTGCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCG	206
Qy	121	GACCTGCTTCCCCACTTCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA	180
Db	207	GACCTGCTTCCCCACTTCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA	266
Qy	181	GTGCTGCTTGTGTGCAAGGCCGTGCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAG	240
Db	267	GTGCTGCTTGTGTGCAAGGCCGTGCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAG	326
Qy	241	TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC	300
Db	327	TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGTGAGCCG	386
Qy	301	ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGCGAGAAGGTGTTTCGGGCTGGAG	360
Db	387	ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGCGAGAAGGTGTTTCGGGCTGGAG	446
Qy	361	GAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC	420
Db	447	GAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC	506
Qy	421	TACATCCGCATAGCCAGATTGCGCAAGAAC'TTCGAGCAGGAGCCGCTGGCCAAGGAGGTG	480
Db	507	TACATCCGCATAGCCAGATTGCGCAAGAAC'TTCGAGCAGGAGCCGCTGGCCAAGGAGGTG	566
Qy	481	TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAG	540
Db	567	TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAG	626
Qy	541	GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC	600
Db	627	GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC	686
Qy	601	ACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACTACACC	660
Db	687	ACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACTACACC	746
Qy	661	TGCGTGGCCAAGAACATCGTGGCACGTCGCCGCAGCGCCTCCGCTGCTGTCATCGTCTAC	720
Db	747	TGCGTGGCCAAGAACATCGTGGCACGTCGCCGCAGCGCCTCCGCTGCTGTCATCGTCTAC	806
Qy	721	GTGAACGGTGGGTGGTGCACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	780
Db	807	GTGAACGGTGGGTGGTGCACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	866
Qy	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	840
Db	867	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	926
Qy	841	TGTGAGGGGCGAGAATGTCCAGAA---AACAGCCTGCGCCACCCTGTGCCAGTAGACGGC	897

Db	927	TGTGAGGGGCGAATGTCCATGACCGCACCGTCTCCTCTCTGCTTGTCTCTGTGGACGGC	986
Qy	988	AGCTGGAGCCCCTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGC	957
Db	987	AGCTGGAGCCCCTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGC	1046
Qy	958	CGTGAGTGCTCTGACCCAGCACCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTG	1017
Db	1047	CGTGAGTGCTCTGACCCAGCACCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTG	1106
Qy	1018	GACACCCGCAACTGTACCACTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTG	1077
Db	1107	GACACCCGCAACTGTACCACTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTG	1166
Qy	1078	GCCCTCTATGTGGGCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTC	1137
Db	1167	GCCCTCTATGTGGGCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTC	1226
Qy	1138	ATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATT	1197
Db	1227	ATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATT	1286
Qy	1198	CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTG	1257
Db	1287	CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTG	1346
Qy	1258	CTCACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCC	1317
Db	1347	CTCACCATCCAGCCGGACCTCAG---CACCACCACCACCTACCAGGGCAGTCTCTGTCCC	1403
Qy	1318	CGGCAGGATGGGCCCAGCCCCAAGTTCAGCTCACCATGGGCACCTGCTCAGCCCCCTG	1377
Db	1404	CGGCAGGATGGGCCCAGCCCCAAGTTCAGCTCACCATGGGCACCTGCTCAGCCCCCTG	1463
Qy	1378	GGTGGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTC	1437
Db	1464	GGTGGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTC	1523
Qy	1438	TCCCGCCTCTCCACCCAGAATACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACC	1497
Db	1524	TCCCGCCTCTCCACCCAGAATACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACC	1583
Qy	1498	TATGGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTC	1557
Db	1584	TATGGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTC	1643
Qy	1558	CTCATCCCCCAGATGCCATACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCAC	1617
Db	1644	CTCATCCCCCAGATGCCATACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCAC	1703
Qy	1618	AAGCCGGAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTT	1677
Db	1704	AAGCCGGAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTT	1763
Qy	1678	AGCTGTGGACCCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGT	1737

Db	1764	AGCTGTGGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGT	1823
Qy	1738	GGGGAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGC	1797
Db	1824	GGGGAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGC	1883
Qy	1798	TGGG---AGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAG	1854
Db	1884	TGGGAGCAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAG	1943
Qy	1855	CTGGAGGCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGA	1914
Db	1944	CTGGAGGCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGA	2003
Qy	1915	GAGGCCCTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCC	1974
Db	2004	GAGGCCCTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCC	2063
Qy	1975	TGCACCTCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTC	2034
Db	2064	TGCACCTCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTC	2123
Qy	2035	AAGGAGGTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTC	2094
Db	2124	AAGGAGGTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTC	2183
Qy	2095	CTGCACTTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCC	2154
Db	2184	CTGCACTTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCC	2243
Qy	2155	CTGTGGAAGAGTAAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAAT	2214
Db	2244	CTGTGGAAGAGTAAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAAT	2303
Qy	2215	GGCAGCGAGCGGTACTTGCCTGCACCTTCACCCCTGGAGCGTGTGAGCCCCAGCACTAGT	2274
Db	2304	GGCAGCGAGCGGTACTTGCCTGCACCTTCACCCCTGGAGCGTGTGAGCCCCAGCACTAGT	2363
Qy	2275	GACCTGGCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATC	2334
Db	2364	GACCTGGCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATC	2423
Qy	2335	AACTTCAACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCG	2394
Db	2424	AACTTCAACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCG	2483
Qy	2395	GGGGTCCCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAG	2454
Db	2484	GGGGTCCCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAG	2543
Qy	2455	ATAATTTCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAG	2514
Db	2544	ATAATTTCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAG	2603
Qy	2515	AAACTCCACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATG	2574
Db	2604	AAACTCCACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATG	2663

Qy 2575 ATCCTCAACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCA 2634  
 |||  
 Db 2664 ATCCTCAACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCA 2723

Qy 2635 GCAGTGGCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGC 2694  
 |||  
 Db 2724 GCAGTGGCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGC 2783

Qy 2695 TGA 2697  
 |||  
 Db 2784 TGA 2786

RESULT 4

US-10-643-795A-77

; Sequence 77, Application US/10643795A  
 ; Publication No. US20040241703A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: FREDERIC J. DESAUVAGE  
 ; APPLICANT: GRETCHEN FRANTZ  
 ; APPLICANT: KENNETH J. HILLAN  
 ; APPLICANT: PAUL POLAKIS  
 ; APPLICANT: ANDREW POLSON  
 ; APPLICANT: VICTORIA SMITH  
 ; APPLICANT: SUSAN D. SPENCER  
 ; APPLICANT: THOMAS D. WU  
 ; APPLICANT: ZEMIN ZHANG  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND  
 ; TITLE OF INVENTION: TREATMENT OF TUMOR  
 ; FILE REFERENCE: P5026R1-US  
 ; CURRENT APPLICATION NUMBER: US/10/643,795A  
 ; CURRENT FILING DATE: 2003-08-19  
 ; PRIOR APPLICATION NUMBER: US 60/404,809  
 ; PRIOR FILING DATE: 2002-08-19  
 ; PRIOR APPLICATION NUMBER: US 60/405,645  
 ; PRIOR FILING DATE: 2002-08-21  
 ; PRIOR APPLICATION NUMBER: US 60/413,192  
 ; PRIOR FILING DATE: 2002-09-23  
 ; PRIOR APPLICATION NUMBER: US 60/419,008  
 ; PRIOR FILING DATE: 2002-10-15  
 ; PRIOR APPLICATION NUMBER: US 60/426,847  
 ; PRIOR FILING DATE: 2002-11-15  
 ; PRIOR APPLICATION NUMBER: US 60/484,959  
 ; PRIOR FILING DATE: 2003-07-02  
 ; NUMBER OF SEQ ID NOS: 158  
 ; SEQ ID NO 77  
 ; LENGTH: 3561  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapien  
 US-10-643-795A-77

Query Match 86.9%; Score 2343; DB 18; Length 3561;  
 Best Local Similarity 93.6%; Pred. No. 0;  
 Matches 2524; Conservative 0; Mismatches 5; Indels 168; Gaps 1;

Qy 1 ATGGCCGTCCGGCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTC 60

Db	4		ATGGCCGTCCGGCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTC	63
Qy	61		CGCGGGCTCGGGTGCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCG	120
Db	64		CGCGGGCTCGGGTGCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCG	123
Qy	121		GACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA	180
Db	124		GACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA	183
Qy	181		GTGCTGCTTGTGTGCAAGGCCGTGCCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAG	240
Db	184		GTGCTGCTTGTGTGCAAGGCCGTGCCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAG	243
Qy	241		TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC	300
Db	244		TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC	303
Qy	301		ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGCGAGAAGGTGTTTCGGGCTGGAG	360
Db	304		ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGCGAGAAGGTGTTTCGGGCTGGAG	363
Qy	361		GAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC	420
Db	364		GAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC	423
Qy	421		TACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTG	480
Db	424		TACATCCGCATAGCCATTTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTG	483
Qy	481		TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGAGGGGCATCCCTCCAGCCGAG	540
Db	484		TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGAGGGGCATCCCTCCAGCCGAG	543
Qy	541		GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC	600
Db	544		GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC	603
Qy	601		ACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACTACACC	660
Db	604		ACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACTACACC	663
Qy	661		TGCGTGGCCAAGAACATCGTGGCACGTGCGCGCAGCGCCTCCGCTGCTGTATCGTCTAC	720
Db	664		TGCGTGGCCAAGAACATCGTGGCACGTGCGCGCAGCGCCTCCGCTGCTGTATCGTCTAC	723
Qy	721		GTGAACGGTGGGTGGTGCACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	780
Db	724		GTG-----	726
Qy	781		GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	840
Db	727		-----	726
Qy	841		TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGC	900

Db	727	-----GACGGCAGC	735
Qy	901	TGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	960
Db	736	TGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	795
Qy	961	GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	1020
Db	796	GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	855
Qy	1021	ACCCGCAACTGTACCACTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC	1080
Db	856	ACCCGCAACTGTACCACTGACCTCTGTGTACACACTGCTTCTGGCCCTGAGGACGTGGCC	915
Qy	1081	CTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATC	1140
Db	916	CTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATC	975
Qy	1141	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1200
Db	976	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1035
Qy	1201	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTC	1260
Db	1036	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTC	1095
Qy	1261	ACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG	1320
Db	1096	ACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG	1155
Qy	1321	CAGGATGGGCCCAGCCCCAAGTTCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1380
Db	1156	CAGGATGGGCCCAGCCCCAAGTTCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1215
Qy	1381	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1440
Db	1216	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1275
Qy	1441	CGCCTCTCCACCCAGAATACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1500
Db	1276	CGCCTCTCCACCCAGAATACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1335
Qy	1501	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC	1560
Db	1336	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTCCTC	1395
Qy	1561	ATCCCCCAGATGCCATACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1620
Db	1396	ATCCCCCAGATGCCATACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1455
Qy	1621	CCGGAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1680
Db	1456	CCGGAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1515
Qy	1681	TGTGGACCCCTGGCGTCTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1740
Db	1516	TGTGGACCCCTGGCGTCTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1575

Qy	1741	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1800
Db	1576	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1635
Qy	1801	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAG	1860
Db	1636	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAG	1695
Qy	1861	GCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCC	1920
Db	1696	GCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCC	1755
Qy	1921	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	1980
Db	1756	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	1815
Qy	1981	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2040
Db	1816	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	1875
Qy	2041	GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	2100
Db	1876	GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	1935
Qy	2101	TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGG	2160
Db	1936	TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGG	1995
Qy	2161	AAGAGTAAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACG	2220
Db	1996	AAGAGTAAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACG	2055
Qy	2221	CAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG	2280
Db	2056	CAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG	2115
Qy	2281	GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC	2340
Db	2116	GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC	2175
Qy	2341	AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTC	2400
Db	2176	AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTC	2235
Qy	2401	CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT	2460
Db	2236	CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT	2295
Qy	2461	TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCAGAACTC	2520
Db	2296	TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCAGAACTC	2355
Qy	2521	CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC	2580
Db	2356	CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC	2415



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Qy      2581 AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG 2640
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2416 AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG 2475

Qy      2641 GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGA 2697
        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      2476 GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGA 2532

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RESULT 5

US-10-311-623-13

; Sequence 13, Application US/10311623

; Publication No. US20040023244A1

; GENERAL INFORMATION:

; APPLICANT: INCYTE GENOMICS, INC.; GRIFFIN, Jennifer A.

; APPLICANT: KALLICK, Deborah A.; TRIBOULEY, Catherine M.

; APPLICANT: YUE, Henry; NGUYEN, Dannel B.

; APPLICANT: TANG, Y. Tom; LAL, Preeti G.

; APPLICANT: POLICKY, Jennifer L.; AZIMZAI, Yalda

; APPLICANT: LU, Dyung Aina M.; GRAUL, Richard C.

; APPLICANT: YAO, Monique G.; BURFORD, Neil

; APPLICANT: HAFALIA, April J. A.; BAUGHN, Mariah R.

; APPLICANT: BANDMAN, Olga; ARVIZU, Chandra S.

; APPLICANT: YANG, Junming; XU, Yuming

; APPLICANT: GANDHI, Ameena R.; WARREN, Bridget A.

; APPLICANT: DING, Li; SANJANWALA, Madhusudan M.

; APPLICANT: DUGGAN, Brendan M.; LU, Yan

; TITLE OF INVENTION: RECEPTORS

; FILE REFERENCE: PF-0793 USN

; CURRENT APPLICATION NUMBER: US/10/311,623

; CURRENT FILING DATE: 2002-12-17

; PRIOR APPLICATION NUMBER: US 01/19942

; PRIOR FILING DATE: 2001-06-21

; PRIOR APPLICATION NUMBER: US 60/214,027

; PRIOR FILING DATE: 2000-06-21

; PRIOR APPLICATION NUMBER: US 60/228,045

; PRIOR FILING DATE: 2000-08-25

; PRIOR APPLICATION NUMBER: US 60/255,104

; PRIOR FILING DATE: 2000-12-12

; NUMBER OF SEQ ID NOS: 24

; SOFTWARE: PERL Program

; SEQ ID NO 13

; LENGTH: 3580

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: misc\_feature

; OTHER INFORMATION: Incyte ID No. US20040023244A1 6052371CB1

US-10-311-623-13

Query Match 86.9%; Score 2343; DB 17; Length 3580;

Best Local Similarity 93.6%; Pred. No. 0;

Matches 2524; Conservative 0; Mismatches 5; Indels 168; Gaps 1;

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Qy      1 ATGGCCGTCCGGCCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTC 60
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Db      4 ATGGCCGTCCGGCCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTC 63

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Qy	61	CGCGGCTCGGGTGCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCG	120
Db	64	CGCGGCTCGGGTGCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCG	123
Qy	121	GACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA	180
Db	124	GACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA	183
Qy	181	GTGCTGCTTGTGTGCAAGGCCGTGCCC GCCACGCAGATCTTCTTCAAGTGCAACGGGGAG	240
Db	184	GTGCTGCTTGTGTGCAAGGCCGTGCCC GCCACGCAGATCTTCTTCAAGTGCAACGGGGAG	243
Qy	241	TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC	300
Db	244	TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC	303
Qy	301	ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGAGAAAGGTGTTGGGCTGGAG	360
Db	304	ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGAGAAAGGTGTTGGGCTGGAG	363
Qy	361	GAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC	420
Db	364	GAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC	423
Qy	421	TACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTG	480
Db	424	TACATCCGCATAGCCTATTTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTG	483
Qy	481	TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGAGGGGCATCCCTCCAGCCGAG	540
Db	484	TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGAGGGGCATCCCTCCAGCCGAG	543
Qy	541	GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC	600
Db	544	GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC	603
Qy	601	ACGCGGGAGCACAGCCTGGTGGTGCGACAGGCCCGCCTTGCTGACACGGCCAACTACACC	660
Db	604	ACGCGGGAGCACAGCCTGGTGGTGCGACAGGCCCGCCTTGCTGACACGGCCAACTACACC	663
Qy	661	TGCGTGGCCAAGAACATCGTGGCACGTCGCCGCAGCGCCTCCGCTGCTGTATCGTCTAC	720
Db	664	TGCGTGGCCAAGAACATCGTGGCACGTCGCCGCAGCGCCTCCGCTGCTGTATCGTCTAC	723
Qy	721	GTGAACGGTGGGTGGTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	780
Db	724	GTG-----	726
Qy	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	840
Db	727	-----	726
Qy	841	TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGC	900
Db	727	-----GACGGCAGC	735

Qy	901	TGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	960
Db	736	TGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	795
Qy	961	GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	1020
Db	796	GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	855
Qy	1021	ACCCGCAACTGTACCAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC	1080
Db	856	ACCCGCAACTGTACCAGTGACCTCTGTGTACACACTGCTTCTGGCCCTGAGGACGTGGCC	915
Qy	1081	CTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATC	1140
Db	916	CTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATC	975
Qy	1141	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1200
Db	976	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1035
Qy	1201	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTC	1260
Db	1036	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTC	1095
Qy	1261	ACCATCCAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG	1320
Db	1096	ACCATCCAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG	1155
Qy	1321	CAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1380
Db	1156	CAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1215
Qy	1381	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1440
Db	1216	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1275
Qy	1441	CGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1500
Db	1276	CGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1335
Qy	1501	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC	1560
Db	1336	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTCCTC	1395
Qy	1561	ATCCCCCAGATGCCATAACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1620
Db	1396	ATCCCCCAGATGCCATAACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1455
Qy	1621	CCGGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1680
Db	1456	CCGGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1515
Qy	1681	TGTGGACCCCTGGCGTCTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1740
Db	1516	TGTGGACCCCTGGCGTCTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1575
Qy	1741	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1800

Db	1576	 GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1635
Qy	1801	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAG	1860
Db	1636	 GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAG	1695
Qy	1861	GCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCC	1920
Db	1696	 GCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCC	1755
Qy	1921	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	1980
Db	1756	 CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	1815
Qy	1981	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2040
Db	1816	 TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	1875
Qy	2041	GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	2100
Db	1876	 GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	1935
Qy	2101	TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGG	2160
Db	1936	 TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGG	1995
Qy	2161	AAGAGTAAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACG	2220
Db	1996	 AAGAGTAAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACG	2055
Qy	2221	CAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG	2280
Db	2056	 CAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG	2115
Qy	2281	GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC	2340
Db	2116	 GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC	2175
Qy	2341	AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTC	2400
Db	2176	 AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTC	2235
Qy	2401	CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT	2460
Db	2236	 CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT	2295
Qy	2461	TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCAGAACTC	2520
Db	2296	 TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCAGAACTC	2355
Qy	2521	CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC	2580
Db	2356	 CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC	2415
Qy	2581	AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG	2640

Db 2416 AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG 2475  
 Qy 2641 GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGA 2697  
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 Db 2476 GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGA 2532

RESULT 6

US-10-240-154-15

; Sequence 15, Application US/10240154  
 ; Publication No. US20030175741A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Cochran et al.  
 ; TITLE OF INVENTION: SCHIZOPHRENIA RELATED GENES  
 ; FILE REFERENCE: CKFW-P01-006  
 ; CURRENT APPLICATION NUMBER: US/10/240,154  
 ; CURRENT FILING DATE: 2001-04-02  
 ; PRIOR APPLICATION NUMBER: PCT/GB01/01486  
 ; PRIOR FILING DATE: 2001-04-02  
 ; NUMBER OF SEQ ID NOS: 34  
 ; SOFTWARE: PatentIn version 3.2  
 ; SEQ ID NO 15  
 ; LENGTH: 2697  
 ; TYPE: DNA  
 ; ORGANISM: Rattus sp.  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (1)..(2697)

US-10-240-154-15

Query Match 83.5%; Score 2252.2; DB 16; Length 2697;  
 Best Local Similarity 89.7%; Pred. No. 0;  
 Matches 2419; Conservative 0; Mismatches 278; Indels 0; Gaps 0;

Qy 1 ATGGCCGTCCGGCCCGGCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTC 60  
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 Db 1 ATGGCCGTCCGGCCCGGCTGTGGCCAGTGTCTCCTGGGCATAGTCCTCGCCGCTTGGCTT 60  
 Qy 61 CGCGGCTCGGGTGCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCG 120  
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 Db 61 CGTGGTTCGGGTGCCCAGCAGAGTGCCACGGTGGCCAATCCAGTGGCCGCTGCCAACCC 120  
 Qy 121 GACCTGCTTCCCCACTTCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA 180  
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 Db 121 GACCTGCTGCCCCACTTCTGGTAGAGCCTGAGGACGTGTACATTGTCAAGAACAAGCCG 180  
 Qy 181 GTGCTGCTTGTGTGCAAGGCCGTGCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAG 240  
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 Db 181 GTGTTGTTGGTGTGCAAGGCTGTGCCTGCCACCCAGATCTTCTTCAAGTGCAATGGGGAA 240  
 Qy 241 TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC 300  
 ||||| |||||||| || ||||| || || |||||||| ||| | ||||| || ||||  
 Db 241 TGGGTCCGCCAGGTGCATCACGTAATTGAACGCAGCACCGACAGCAGCAGCGGATTGCCA 300  
 Qy 301 ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGAGAAAGGTGTTGGGGCTGGAG 360  
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 Db 301 ACCATGGAGGTCCGTATCAACGTATCGAGGCAGCAGGTAGAGAAAGTGTTTGGGCTGGAG 360

Qy	361	GAATACTGGTGCCAGTGCCTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC	420
Db	361	GAATACTGGTGCCAGTGTGTGGCATGGAGCTCCTCGGGTACCACCAAAAGTCAGAAGGCC	420
Qy	421	TACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTG	480
Db	421	TACATCCGGATTGCCTATTTGCGCAAGAACTTTGAGCAGGAGCCACTGGCCAAGGAAGTG	480
Qy	481	TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACGGAGGGCATCCCTCCAGCCGAG	540
Db	481	TCCTGGAGCAAGGCATTGTACTACCTTGTGCGCCCCCAGAAGGAATCCCCCAGCTGAG	540
Qy	541	GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC	600
Db	541	GTGGAGTGGCTTCGAAATGAGGACCTCGTGGACCCCTCCCTCGATCCCAATGTGTACATC	600
Qy	601	ACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACTACACC	660
Db	601	ACGCGGGAGCACAGCCTAGTCGTGCGTCAGGCCCGCCTGGCCGACACGGCCAACTACACC	660
Qy	661	TGCGTGGCCAAGAACATCGTGGCACGTCGCCGACGCGCTCCGCTGCTGTCATCGTCTAC	720
Db	661	TGTGTGGCCAAGAACATCGTAGCCCGTCGCCGAAGCACCTCTGCAGCGGTCAATTGTTTAT	720
Qy	721	GTGAACGGTGGGTGGTGCACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	780
Db	721	GTGAACGGTGGGTGGTGCACGTGGACTGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGT	780
Qy	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	840
Db	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCACCTCTCAACGGGGGCGCCTTC	840
Qy	841	TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGCAGC	900
Db	841	TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACTCTGTGCCCAGTGGATGGGAGC	900
Qy	901	TGGAGCCCGTGGAGCAAGTGGTTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	960
Db	901	TGGAGTTCTGTGGAGTAAGTGGTCAGCCTGTGGGCTTGACTGCACCCACTGGCGGAGCCGC	960
Qy	961	GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	1020
Db	961	GAGTGCTCTGACCCAGCACCCCGCAATGGAGGTGAGGAGTGTGCGGGTGCTGACCTGGAC	1020
Qy	1021	ACCCGCAACTGTACCAAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC	1080
Db	1021	ACCCGCAACTGTACCAAGTGACCTCTGCCTGCACACCGCTTCTTGCCCCGAGGACGTGGCT	1080
Qy	1081	CTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATC	1140
Db	1081	CTCTACATCGGCCTTGTGCTGTGGCTGTGTGCCTCTTCTGCTGTTGCTGGCCCTTGA	1140
Qy	1141	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1200
Db	1141	CTCATTTACTGTGCAAGAAGGAAGGGCTGGACTCCGATGTGGCCGACTCGTCCATCCTC	1200

Qy	1201	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTC	1260
Db	1201	ACCTCGGGCTTCCAGCCTGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCACCTGCTC	1260
Qy	1261	ACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG	1320
Db	1261	ACCATCCAGCCAGACCTCAGCACCACCCTACCACCTACCAGGGCAGTCTATGTTTCGAGG	1320
Qy	1321	CAGGATGGGCCCAGCCCCAAGTTCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1380
Db	1321	CAGGATGGACCCAGCCCCAAGTTCAGCTCTCTAATGGTCACCTGCTCAGCCCCTGGGG	1380
Qy	1381	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1440
Db	1381	AGTGGCCGCCATACGTTGCACCACAGCTCACCCACCTCTGAGGCTGAGGACTTCGTCTCC	1440
Qy	1441	CGCCTCTCCACCCAGAATACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1500
Db	1441	CGCCTCTCCACCCAAAATACTTTTCGTTCCCTGCCCCGCGGCACCAGCAACATGGCCTAC	1500
Qy	1501	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC	1560
Db	1501	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACGGGGATCAGCCTCCTC	1560
Qy	1561	ATCCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1620
Db	1561	ATACCCCGGATGCCATCCCCGAGGAAAGATCTACGAGATCTACCTCACACTGCACAAG	1620
Qy	1621	CCGGAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1680
Db	1621	CCAGAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCAGTCGTTAGC	1680
Qy	1681	TGTGGACCCCTGGCGTCTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1740
Db	1681	TGTGGGCCCCCAGGAGTCTGCTCACCCGGCCAGTCATCCTTGCAATGGACCACTGTGGA	1740
Qy	1741	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1800
Db	1741	GAGCCCAGCCCTGACAGCTGGAGTCTGCGCCTCAAAAAGCAGTCCTGCGAGGGCAGTTGG	1800
Qy	1801	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAG	1860
Db	1801	GAGGATGTGCTGCACCTTGGTGAGGAGTCACCTTCCCACCTCTACTACTGCCAGCTGGAG	1860
Qy	1861	GCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCC	1920
Db	1861	GCCGGGGCCTGCTATGTCTTCACGGAGCAGCTGGGCCGCTTTGCCCTGGTAGGAGAGGCC	1920
Qy	1921	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	1980
Db	1921	CTCAGCGTGGCTGCCACCAAGCGCCTCAGGCTCCTTCTGTTTGCTCCCGTGGCCTGTACG	1980
Qy	1981	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2040
Db	1981	TCCCTTGAGTACAACATCCGAGTGTACTGCCTACACGACACCCACGACGCTCTCAAGGAG	2040
Qy	2041	GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	2100

Db	2041	GTGGTGCAGCTGGAGAAGCAGCTAGGTGGACAGCTGATCCAGGAGCCTCGCGTCCTGCAC	2100
Qy	2101	TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGG	2160
Db	2101	TTCAAAGACAGTTACCACAACCTACGTCTCTCCATCCACGACGTGCCAGCTCCCTGTGG	2160
Qy	2161	AAGAGTAAGCTCCTTGTCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACG	2220
Db	2161	AAGAGCAAGCTACTTGTCTAGCTACCAGGAGATCCCCTTTTACCACATCTGGAACGGCACC	2220
Qy	2221	CAGCGGTACTTGCCTGACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG	2280
Db	2221	CAGCAGTATCTGCACTGACCTTCACCCTGGAGCGCATCAACGCCAGCACCAGCGACCTG	2280
Qy	2281	GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC	2340
Db	2281	GCCTGCAAGGTGTGGGTGTGGCAGGTGGAGGGAGATGGGCAGAGCTTCAACATCAACTTC	2340
Qy	2341	AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTC	2400
Db	2341	AACATCACTAAGGACACAAGGTTTGCTGAATTGTTGGCTCTGGAGAGTGAAGGGGGGGTC	2400
Qy	2401	CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT	2460
Db	2401	CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAAAAGATCATC	2460
Qy	2461	TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCAGAAACTC	2520
Db	2461	GCCAGTCTGGACCCACCCTGCAGCCGGGGCGCCGACTGGAGAACTCTAGCCAGAAACTT	2520
Qy	2521	CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC	2580
Db	2521	CACCTGGACAGCCATCTTAGCTTCTTTGCCTCCAAGCCCAGCCCTACAGCCATGATCCTC	2580
Qy	2581	AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG	2640
Db	2581	AACCTATGGGAGGCACGGCACTTCCCCAACGGCAACCTCGGCCAGCTGGCAGCAGCTGTG	2640
Qy	2641	GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGGAGGCTGAGTGCTGA	2697
Db	2641	GCCGGACTGGGCCAACCAGATGCTGGCCTCTTCACGGTGTGGAGGCCGAGTGTTGA	2697

RESULT 7

US-09-933-261-1

; Sequence 1, Application US/09933261

; Publication No. US20030040046A1

; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc

; Leonardo, E. David

; Hink, Lindsay

; Masu, Masayuki

; Kazuko, Keino-Masu

; TITLE OF INVENTION: Netrin Receptors

; NUMBER OF SEQUENCES: 8

; CORRESPONDENCE ADDRESS:



```

;      ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
;      STREET: 268 BUSH STREET, SUITE 3200
;      CITY: SAN FRANCISCO
;      STATE: CALIFORNIA
;      COUNTRY: USA
;      ZIP: 94104
;
;      COMPUTER READABLE FORM:
;      MEDIUM TYPE: Floppy disk
;      COMPUTER: IBM PC compatible
;      OPERATING SYSTEM: PC-DOS/MS-DOS
;      SOFTWARE: PatentIn Release #1.0, Version #1.30
;
;      CURRENT APPLICATION DATA:
;      APPLICATION NUMBER: US/09/933,261
;      FILING DATE: 20-Aug-2001
;      CLASSIFICATION: <Unknown>
;
;      PRIOR APPLICATION DATA:
;      APPLICATION NUMBER: 08/808,982
;      FILING DATE: <Unknown>
;
;      ATTORNEY/AGENT INFORMATION:
;      NAME: OSMAN, RICHARD A
;      REGISTRATION NUMBER: 36,627
;      REFERENCE/DOCKET NUMBER: UC96-217
;
;      TELECOMMUNICATION INFORMATION:
;      TELEPHONE: (415) 343-4341
;      TELEFAX: (415) 343-4342
;
;      INFORMATION FOR SEQ ID NO: 1:
;      SEQUENCE CHARACTERISTICS:
;      LENGTH: 3014 base pairs
;      TYPE: nucleic acid
;      STRANDEDNESS: double
;      TOPOLOGY: linear
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;      MOLECULE TYPE: cDNA
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;      SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-933-261-1

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Query Match      83.5%;  Score 2252.2;  DB 10;  Length 3014;
Best Local Similarity  89.7%;  Pred. No. 0;
Matches 2419;  Conservative  0;  Mismatches  278;  Indels  0;  Gaps  0;

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Qy      1  ATGGCCGTCCGGCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTC  60
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Db      1  ATGGCCGTCCGGCCCGGCCTGTGGCCAGTGCTCCTGGGCATAGTCCTCGCCGCCTGGCTT  60

Qy     61  CGCGGCTCGGGTGCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCCTGGTGCCAACCCG  120
        || || ||||||||||||||||||||||||||||||||||||||||||||
Db     61  CGTGGTTCGGGTGCCCAGCAGAGTGCCACGGTGGCCAATCCAGTGCCCGGTGCCAACCCC  120

Qy    121  GACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA  180
        ||||||| |||||||||||||||| |||| |||| ||||||| |||||||||
Db    121  GACCTGCTGCCCACTTCCTGGTAGAGCCTGAGGACGTGTACATTGTCAAGAACAAGCCG  180

Qy    181  GTGCTGCTTGTGTGCAAGGCCGTGCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAG  240
        ||| || | |||||||||||| |||| |||| |||||||||||||||||||
Db    181  GTGTTGTTGGTGTGCAAGGCTGTGCCTGCCACCCAGATCTTCTTCAAGTGCAATGGGGAA  240

Qy    241  TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC  300
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Db 241 TGGGTCCGCCAGGTCGATCACGTAATTGAACGCAGCACCGACAGCAGCAGCGGATTGCCA 300  
 Qy 301 ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGAGAAAGGTGTTTCGGGCTGGAG 360  
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 Db 301 ACCATGGAGGTCCGTATCAACGTATCGAGGCAGCAGGTAGAGAAAGTGTTTGGGCTGGAG 360  
 Qy 361 GAATACTGGTGCCAGTGCCTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC 420  
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 Db 361 GAATACTGGTGCCAGTGTGTGGCATGGAGCTCCTCGGGTACCACCAAAAGTCAGAAGGCC 420  
 Qy 421 TACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTG 480  
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 Db 421 TACATCCGGATTGCCTATTTGCGCAAGAACTTTGAGCAGGAGCCACTGGCCAAGGAAGTG 480  
 Qy 481 TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAG 540  
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 Db 481 TCACTGGAGCAAGGCATTGTACTACCTTGTGCCCCCAGAAGGAATCCCCCAGCTGAG 540  
 Qy 541 GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC 600  
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 Db 541 GTGGAGTGGCTTCGAAATGAGGACCTCGTGGACCCCTCCCTCGATCCCAATGTGTACATC 600  
 Qy 601 ACGCGGGAGCACAGCCTGGTGGTGCAGCAGGCCCCGCTTGCTGACACGGCCAACCTACACC 660  
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 Db 601 ACGCGGGAGCACAGCCTAGTCGTGCGTCAGGCCCCGCTGGCCGACACGGCCAACCTACACC 660  
 Qy 661 TGCCTGGCCAAGAACATCGTGGCACGTGCGCGCAGCGCTCCGCTGCTGTATCGTCTAC 720  
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 Db 661 TGTGTGGCCAAGAACATCGTAGCCCGTGCAGCAAGCACCTCTGCAGCGGTATTGTTTAT 720  
 Qy 721 GTGAACGGTGGGTGGTGCAGCTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC 780  
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 Db 721 GTGAACGGTGGGTGGTGCAGCTGGACTGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGT 780  
 Qy 781 GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCTCTCAACGGGGGCGCTTTC 840  
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 Db 781 GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCACCTCTCAACGGGGGCGCTTTC 840  
 Qy 841 TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGC 900  
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 Db 841 TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACTCTGTGCCAGTGGATGGGAGC 900  
 Qy 901 TGGAGCCCGTGGAGCAAGTGGTGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT 960  
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 Db 901 TGGAGTTCGTGGAGTAAGTGGTCAGCCTGTGGGCTTGACTGCACCCACTGGCGGAGCCGC 960  
 Qy 961 GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC 1020  
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 Db 961 GAGTGCTCTGACCCAGCACCCCGCAATGGAGGTGAGGAGTGTGGGGTGCTGACCTGGAC 1020  
 Qy 1021 ACCCGCAACTGTACAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC 1080  
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 Db 1021 ACCCGCAACTGTACAGTGACCTCTGCCTGCACACCGCTTCTTGCCCCGAGGACGTGGCT 1080  
 Qy 1081 CTCTATGTGGGCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATC 1140  
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 Db 1081 CTCTACATCGGCCTTGTCGCTGTGGCTGTGTGCCTCTTCTTGCTGTTGCTGGCCCTTGA 1140

Qy	1141	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1200
Db	1141	CTCATTTACTGTCGCAAGAAGGAAGGGCTGGACTCCGATGTGGCCGACTCGTCCATCCTC	1200
Qy	1201	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTC	1260
Db	1201	ACCTCGGGCTTCCAGCCTGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCACCTGCTC	1260
Qy	1261	ACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG	1320
Db	1261	ACCATCCAGCCAGACCTCAGCACCACCACCTACCACCTACCAGGGCAGTCTATGTTTCGAGG	1320
Qy	1321	CAGGATGGGCCCAGCCCCAAGTTCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1380
Db	1321	CAGGATGGACCCAGCCCCAAGTTCAGCTCTCTAATGGTCACCTGCTCAGCCCCACTGGGG	1380
Qy	1381	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1440
Db	1381	AGTGGCCGCCATACGTTGCACCACAGCTCACCCACCTCTGAGGCTGAGGACTTCGTCTCC	1440
Qy	1441	CGCCTCTCCACCCAGAATACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1500
Db	1441	CGCCTCTCCACCCAAAATACTTTTCGTTCCCTGCCCCGCGGCACCAGCAACATGGCCTAC	1500
Qy	1501	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC	1560
Db	1501	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACGGGGATCAGCCTCCTC	1560
Qy	1561	ATCCCCCAGATGCCATACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1620
Db	1561	ATACCCCGGATGCCATCCCCGAGGAAAGATCTACGAGATCTACCTCACACTGCACAAG	1620
Qy	1621	CCGGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1680
Db	1621	CCAGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCAGTCGTTAGC	1680
Qy	1681	TGTGGACCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1740
Db	1681	TGTGGGCCCCAGGAGTCCTGCTCACCCGGCCAGTCATCCTTGCAATGGACCACTGTGGA	1740
Qy	1741	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1800
Db	1741	GAGCCCAGCCCTGACAGCTGGAGTCTGCGCCTCAAAAAGCAGTCCTGCGAGGGCAGTTGG	1800
Qy	1801	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAG	1860
Db	1801	GAGGATGTGCTGCACCTGGTGAGGAGTACCTTCCACCTCTACTACTGCCAGCTGGAG	1860
Qy	1861	GCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCC	1920
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Qy	1921	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	1980
Db	1921	CTCAGCGTGGCTGCCACCAAGCGCCTCAGGCTCCTTCTGTTTGCTCCCGTGGCCTGTACG	1980

Qy	1981	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2040
Db	1981	TCCCTTGAGTACAACATCCGAGTGTACTGCCTACACGACACCCACGACGCTCTCAAGGAG	2040
Qy	2041	GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	2100
Db	2041	GTGGTGCAGCTGGAGAAGCAGCTAGGTGGACAGCTGATCCAGGAGCCTCGCGTCTGCAC	2100
Qy	2101	TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGG	2160
Db	2101	TTCAAAGACAGTTACCACAACCTACGTCTCTCCATCCACGACGTGCCAGCTCCCTGTGG	2160
Qy	2161	AAGAGTAAGCTCCTTGTCAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACG	2220
Db	2161	AAGAGCAAGCTACTTGTCAGCTACCAGGAGATCCCCTTTTACCACATCTGGAACGGCACC	2220
Qy	2221	CAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCAGCACTAGTGACCTG	2280
Db	2221	CAGCAGTATCTGCACTGCACCTTCACCCTGGAGCGCATCAACGCCAGCACCAGCGACCTG	2280
Qy	2281	GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC	2340
Db	2281	GCCTGCAAGGTGTGGGTGTGGCAGGTGGAGGGAGATGGGCAGAGCTTCAACATCAACTTC	2340
Qy	2341	AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTC	2400
Db	2341	AACATCACTAAGGACACAAGGTTTGCTGAATTGTTGGCTCTGGAGAGTGAAGGGGGGGTC	2400
Qy	2401	CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT	2460
Db	2401	CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAAAAGATCATC	2460
Qy	2461	TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCAGAAACTC	2520
Db	2461	GCCAGTCTGGACCCACCCTGCAGCCGGGGCGCCGACTGGAGAACTCTAGCCAGAAACTT	2520
Qy	2521	CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC	2580
Db	2521	CACCTGGACAGCCATCTTAGCTTCTTTGCCTCCAAGCCCAGCCCTACAGCCATGATCCTC	2580
Qy	2581	AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG	2640
Db	2581	AACCTATGGGAGGCACGGCACTTCCCCAACGGCAACCTCGGCCAGCTGGCAGCAGCTGTG	2640
Qy	2641	GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGCGAGGCTGAGTGCTGA	2697
Db	2641	GCCGGACTGGGCCAACCAGATGCTGGCCTCTTCACGGTGTGCGAGGCCGAGTGTTGA	2697

RESULT 8

US-10-256-702-1

; Sequence 1, Application US/10256702

; Publication No. US20030059859A1

; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc

; Leonardo, E. David

; Hink, Lindsay

```

;           Masu, Masayuki
;           Kazuko, Keino-Masu
;   TITLE OF INVENTION: Netrin Receptors
;   NUMBER OF SEQUENCES: 8
;   CORRESPONDENCE ADDRESS:
;       ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
;       STREET: 268 BUSH STREET, SUITE 3200
;       CITY: SAN FRANCISCO
;       STATE: CALIFORNIA
;       COUNTRY: USA
;       ZIP: 94104
;   COMPUTER READABLE FORM:
;       MEDIUM TYPE: Floppy disk
;       COMPUTER: IBM PC compatible
;       OPERATING SYSTEM: PC-DOS/MS-DOS
;       SOFTWARE: PatentIn Release #1.0, Version #1.30
;   CURRENT APPLICATION DATA:
;       APPLICATION NUMBER: US/10/256,702
;       FILING DATE: 27-Sep-2002
;       CLASSIFICATION: <Unknown>
;   PRIOR APPLICATION DATA:
;       APPLICATION NUMBER: US/09/933,261
;       FILING DATE: 20-Aug-2001
;       APPLICATION NUMBER: 08/808,982
;       FILING DATE: <Unknown>
;   ATTORNEY/AGENT INFORMATION:
;       NAME: OSMAN, RICHARD A
;       REGISTRATION NUMBER: 36,627
;       REFERENCE/DOCKET NUMBER: UC96-217
;   TELECOMMUNICATION INFORMATION:
;       TELEPHONE: (415) 343-4341
;       TELEFAX: (415) 343-4342
;   INFORMATION FOR SEQ ID NO: 1:
;       SEQUENCE CHARACTERISTICS:
;           LENGTH: 3014 base pairs
;           TYPE: nucleic acid
;           STRANDEDNESS: double
;           TOPOLOGY: linear
;       MOLECULE TYPE: cDNA
;       SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-256-702-1

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Query Match          83.5%;  Score 2252.2;  DB 14;  Length 3014;
Best Local Similarity 89.7%;  Pred. No. 0;
Matches 2419;  Conservative 0;  Mismatches 278;  Indels 0;  Gaps 0;

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Qy      1 ATGGCCGTCCGGCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTC 60
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Db      1 ATGGCCGTCCGGCCCGGCCTGTGGCCAGTGCTCCTGGGCATAGTCCTCGCCGCTTGGCTT 60

Qy     61 CGCGGCTCGGGTGCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCGCTGGTGCCAACCCG 120
        || ||
Db     61 CGTGGTTTCGGGTGCCAGCAGAGTGCCACGGTGGCCAATCCAGTGCCCGGTGCCAACCCC 120

Qy    121 GACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA 180
        |||
Db    121 GACCTGCTGCCCACTTCCTGGTAGAGCCTGAGGACGTGTACATTGTCAAGAACAAGCCG 180

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Qy	181	GTGCTGCTTGTGTGCAAGGCCGTGCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAG	240
Db	181	GTGTTGTTGGTGTGCAAGGCTGTGCCTGCCACCCAGATCTTCTTCAAGTGCAATGGGGAA	240
Qy	241	TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC	300
Db	241	TGGGTCCGCCAGGTGATCACGTAATTGAACGCAGCACCGACAGCAGCAGCGGATTGCCA	300
Qy	301	ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGAGAAAGGTGTTGGGCTGGAG	360
Db	301	ACCATGGAGGTCCGTATCAACGTATCGAGGCAGCAGGTAGAGAAAGTGTTTGGGCTGGAG	360
Qy	361	GAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC	420
Db	361	GAATACTGGTGCCAGTGTGTGGCATGGAGCTCCTCGGGTACCACCAAAAGTCAGAAGGCC	420
Qy	421	TACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTG	480
Db	421	TACATCCGGATTGCCTATTTGCGCAAGAACTTTGAGCAGGAGCCACTGGCCAAGGAAGTG	480
Qy	481	TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGAGGGGCATCCCTCCAGCCGAG	540
Db	481	TCACTGGAGCAAGGCATTGTACTACCTTGTGCCCCCAGAAGGAATCCCCCAGCTGAG	540
Qy	541	GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC	600
Db	541	GTGGAGTGGCTTCGAAATGAGGACCTCGTGGACCCCTCCCTCGATCCCAATGTGTACATC	600
Qy	601	ACGCGGGAGCACAGCCTGGTGGTGCGACAGGCCCGCCTTGCTGACACGGCCAACCTACACC	660
Db	601	ACGCGGGAGCACAGCCTAGTCGTGCGTCAGGCCCGCCTGGCCGACACGGCCAACCTACACC	660
Qy	661	TGCGTGGCCAAGAACATCGTGGCACGTGCGCCGAGCGCCTCCGCTGCTGTCATCGTCTAC	720
Db	661	TGTGTGGCCAAGAACATCGTAGCCCGTCGCCGAAGCACCTCTGCAGCGGTATTGTTTAT	720
Qy	721	GTGAACGGTGGGTGGTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	780
Db	721	GTGAACGGTGGGTGGTCGACGTGGACTGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGT	780
Qy	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	840
Db	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCACCTCTCAACGGGGGCGCCTTC	840
Qy	841	TGTGAGGGGCGAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGCAGC	900
Db	841	TGTGAGGGGCGAGAATGTCCAGAAAACAGCCTGCGCCACTCTGTGCCCAGTGATGGGAGC	900
Qy	901	TGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	960
Db	901	TGGAGTTCGTGGAGTAAGTGGTCAGCCTGTGGGCTTGACTGCACCCACTGGCGGAGCCGC	960
Qy	961	GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	1020
Db	961	GAGTGCTCTGACCCAGCACCCCGCAATGGAGGTGAGGAGTGTCGGGGTGCTGACCTGGAC	1020

Qy 1021 ACCCGCAACTGTACCACTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC 1080  
 |||||  
 Db 1021 ACCCGCAACTGTACCACTGACCTCTGCCTGCACACCGCTTCTTGCCCCGAGGACGTGGCT 1080

Qy 1081 CTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATC 1140  
 |||||  
 Db 1081 CTCTACATCGGCCTTGTCTGCTGTGGCTGTGTGCCTCTTCTTGCTGTTGCTGGCCCTTGGA 1140

Qy 1141 CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC 1200  
 |||||  
 Db 1141 CTCATTTACTGTGCAAGAAGGAAGGGCTGGACTCCGATGTGGCCGACTCGTCCATCCTC 1200

Qy 1201 ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTC 1260  
 |||||  
 Db 1201 ACCTCGGGCTTCCAGCCTGTGAGCATCAAGCCCAGCAAAGCAGACAACCCCCACCTGCTC 1260

Qy 1261 ACCATCCAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG 1320  
 |||||  
 Db 1261 ACCATCCAGCCAGACCTCAGCACCACCCTACCACCTACCAGGGCAGTCTATGTTGAGG 1320

Qy 1321 CAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCATGGGCACCTGCTCAGCCCCCTGGGT 1380  
 |||||  
 Db 1321 CAGGATGGACCCAGCCCCAAGTTCCAGCTCTCTAATGGTCACCTGCTCAGCCCACTGGGG 1380

Qy 1381 GCGGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC 1440  
 |||||  
 Db 1381 AGTGGCCGCCATACGTTGCACCACAGCTCACCACCTCTGAGGCTGAGGACTTCGTCTCC 1440

Qy 1441 CGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT 1500  
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 Db 1441 CGCCTCTCCACCCAAACTACTTTTCGTTCCCTGCCCCGCGGCACCAGCAACATGGCCTAC 1500

Qy 1501 GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC 1560  
 |||||  
 Db 1501 GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACGGGGATCAGCCTCCTC 1560

Qy 1561 ATCCCCCAGATGCCATACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG 1620  
 |||||  
 Db 1561 ATACCCCGGATGCCATACCCGAGGAAAGATCTACGAGATCTACCTCACACTGCACAAG 1620

Qy 1621 CCGGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC 1680  
 |||||  
 Db 1621 CCAGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCAGTCGTTAGC 1680

Qy 1681 TGTGGACCCCTGGCGTCTGCTCACC CGCCAGTCATCCTGGCTATGGACCACTGTGGG 1740  
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 Db 1681 TGTGGGCCCCCAGGAGTCTGCTCACC CGCCAGTCATCCTTGCAATGGACCACTGTGGA 1740

Qy 1741 GAGCCCAGCCCTGACAGCTGGAGCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGTTGG 1800  
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 Db 1741 GAGCCCAGCCCTGACAGCTGGAGTCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGTTGG 1800

Qy 1801 GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAG 1860  
 |||||  
 Db 1801 GAGGATGTGCTGCACCTTGGTGAGGAGTCACCTCCCACCTCTACTACTGCCAGCTGGAG 1860

Qy 1861 GCCAGTGCCTGCTACGTCTTACCGAGCAGCTGGGCGCTTTGCCCTGGTGGGAGAGGCC 1920







Db	60	ATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCTCG	119
Qy	1145	TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT	1204
Db	120	TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT	179
Qy	1205	CAGGCTTCCAGCCCGTCAGCATC-AAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACC	1263
Db	180	CAGGCTTCCAGCCCGTCAGCATCTAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACC	239
Qy	1264	ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG	1323
Db	240	ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG	299
Qy	1324	GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC	1383
Db	300	GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC	359
Qy	1384	GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCTGTCTCCCGC	1443
Db	360	GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCTGTCTCCCGC	419
Qy	1444	CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG	1503
Db	420	CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG	479
Qy	1504	ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATC	1563
Db	480	ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTCCTCATC	539
Qy	1564	CCCCCAGATGCCATACCCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG	1623
Db	540	CCCCCAGATGCCATACCCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG	599
Qy	1624	GAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	1683
Db	600	GAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	659
Qy	1684	GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	1743
Db	660	GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	719
Qy	1744	CCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCCGAGGGCAGCTGGGAG	1803
Db	720	CCCAGCCCTGACAGCTGGAGCCTGGCCCTCAAAAAGCAGTCGTGCCGAGGG-AGCTGGGAG	778
Qy	1804	GATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAGGCC	1863
Db	779	GATGT-CTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAGGCC	837
Qy	1864	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	1923
Db	838	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	897
Qy	1924	AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	1983
Db	898	AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	957

Qy	1984	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	2043
Db	958	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	1017
Qy	2044	GTGCAGCTGGAGAAGCAGCTGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTC	2103
Db	1018	GTGCAGCTGGAGAAGCAGCTGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTC	1076
Qy	2104	AAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAG	2163
Db	1077	AAGGACAGTTACCACAACCT--GCCCTATCATCCACGATGTGCCCAGCTCCCTGTGGAAG	1134
Qy	2164	AGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAG	2223
Db	1135	AGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAG	1194
Qy	2224	CGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC	2283
Db	1195	CGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC	1254
Qy	2284	TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAAC	2343
Db	1255	TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAAC	1314
Qy	2344	ATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGTCCCA	2403
Db	1315	ATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGTCCCA	1374
Qy	2404	GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCC	2463
Db	1375	GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCC	1434
Qy	2464	AGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCAC	2523
Db	1435	AGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCAC	1494
Qy	2524	CTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAAC	2583
Db	1495	CTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAAC	1554
Qy	2584	CTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT	2643
Db	1555	CTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT	1614
Qy	2644	GGACTGGGCCAGCCAGACGCTGGCCTC-TTCACAGTG-TCGGAGGCTGAGTGCTGA	2697
Db	1615	GGGACTGGCCAGCAGGACGGTGGCTTCTTTCACAGTGTTTCGGAGGCTGAGTGCTGA	1670

RESULT 10

US-10-256-702-2

; Sequence 2, Application US/10256702

; Publication No. US20030059859A1

; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc

; Leonardo, E. David

```

;           Hink, Lindsay
;           Masu, Masayuki
;           Kazuko, Keino-Masu
;   TITLE OF INVENTION: Netrin Receptors
;   NUMBER OF SEQUENCES: 8
;   CORRESPONDENCE ADDRESS:
;       ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
;       STREET: 268 BUSH STREET, SUITE 3200
;       CITY: SAN FRANCISCO
;       STATE: CALIFORNIA
;       COUNTRY: USA
;       ZIP: 94104
;   COMPUTER READABLE FORM:
;       MEDIUM TYPE: Floppy disk
;       COMPUTER: IBM PC compatible
;       OPERATING SYSTEM: PC-DOS/MS-DOS
;       SOFTWARE: PatentIn Release #1.0, Version #1.30
;   CURRENT APPLICATION DATA:
;       APPLICATION NUMBER: US/10/256,702
;       FILING DATE: 27-Sep-2002
;       CLASSIFICATION: <Unknown>
;   PRIOR APPLICATION DATA:
;       APPLICATION NUMBER: US/09/933,261
;       FILING DATE: 20-Aug-2001
;       APPLICATION NUMBER: 08/808,982
;       FILING DATE: <Unknown>
;   ATTORNEY/AGENT INFORMATION:
;       NAME: OSMAN, RICHARD A
;       REGISTRATION NUMBER: 36,627
;       REFERENCE/DOCKET NUMBER: UC96-217
;   TELECOMMUNICATION INFORMATION:
;       TELEPHONE: (415) 343-4341
;       TELEFAX: (415) 343-4342
;   INFORMATION FOR SEQ ID NO: 2:
;       SEQUENCE CHARACTERISTICS:
;           LENGTH: 1787 base pairs
;           TYPE: nucleic acid
;           STRANDEDNESS: double
;           TOPOLOGY: linear
;       MOLECULE TYPE: cDNA
;       SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-10-256-702-2

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Query Match          57.6%;  Score 1552.4;  DB 14;  Length 1787;
Best Local Similarity 98.5%;  Pred. No. 0;
Matches 1651;  Conservative 0;  Mismatches 16;  Indels 9;  Gaps 8;

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Qy      1025  GCAACTGTACCAAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCT 1084
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Db      1      GCAACTGTACCAAGTGACCTCTG-GTACACACTGCTTCTGGCCCTGAGGACGTGGCCCTCT 59

Qy      1085  ATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCTCG 1144
          |||
Db      60     ATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCTCG 119

Qy      1145  TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 1204
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Db	120	TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT	179
Qy	1205	CAGGCTTCCAGCCCGTCAGCATC-AAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACC	1263
Db	180	CAGGCTTCCAGCCCGTCAGCATCTAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACC	239
Qy	1264	ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG	1323
Db	240	ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG	299
Qy	1324	GATGGGCCAGCCCCAAGTTCCAGCTACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC	1383
Db	300	GATGGGCCAGCCCCAAGTTCCAGCTACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC	359
Qy	1384	GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC	1443
Db	360	GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC	419
Qy	1444	CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG	1503
Db	420	CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG	479
Qy	1504	ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATC	1563
Db	480	ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTCCTCATC	539
Qy	1564	CCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG	1623
Db	540	CCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG	599
Qy	1624	GAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	1683
Db	600	GAAGACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	659
Qy	1684	GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	1743
Db	660	GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	719
Qy	1744	CCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAG	1803
Db	720	CCCAGCCCTGACAGCTGGAGCCTGGCCCTCAAAAAGCAGTCGTGCGAGGG-AGCTGGGAG	778
Qy	1804	GATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	1863
Db	779	GATGT-CTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	837
Qy	1864	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	1923
Db	838	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	897
Qy	1924	AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	1983
Db	898	AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	957
Qy	1984	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	2043
Db	958	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	1017

Qy	2044	GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTC	2103
Db	1018	GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTT-	1076
Qy	2104	AAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAG	2163
Db	1077	AAGGACAGTTACCACAACCT--GCCCTATCATCCACGATGTGCCCAGCTCCCTGTGGAAG	1134
Qy	2164	AGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAG	2223
Db	1135	AGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAG	1194
Qy	2224	CGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC	2283
Db	1195	CGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC	1254
Qy	2284	TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAAC	2343
Db	1255	TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAAC	1314
Qy	2344	ATCACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA	2403
Db	1315	ATCACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA	1374
Qy	2404	GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTGGGCAGAAGATAATTTCC	2463
Db	1375	GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTGGGCAGAAGATAATTTCC	1434
Qy	2464	AGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCAC	2523
Db	1435	AGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCAC	1494
Qy	2524	CTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAAC	2583
Db	1495	CTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAAC	1554
Qy	2584	CTGTGGGAGGCGCGGCACCTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT	2643
Db	1555	CTGTGGGAGGCGCGGCACCTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT	1614
Qy	2644	GGAAGTGGGCCAGCCAGACGCTGGCCTC-TTCACAGTG-TCGGAGGCTGAGTGCTGA	2697
Db	1615	GGGACTGGCCAGCAGGACGGTGGCTTCTTTACAGTGTTTCGGAGGCTGAGTGCTGA	1670

RESULT 11

US-10-296-115-365

; Sequence 365, Application US/10296115

; Publication No. US20040053248A1

; GENERAL INFORMATION:

; APPLICANT: Hyseq Inc

; TITLE OF INVENTION: No. US20040053248A1el Nucleic Acids and Polypeptides

; FILE REFERENCE: 784PCT

; CURRENT APPLICATION NUMBER: US/10/296,115

; CURRENT FILING DATE: 2002-11-18

; PRIOR APPLICATION NUMBER: US09/488,725

; PRIOR FILING DATE: 2000-01-21  
; PRIOR APPLICATION NUMBER: US09/552,317  
; PRIOR FILING DATE: 2000-04-25  
; NUMBER OF SEQ ID NOS: 1478  
; SEQ ID NO 365  
; LENGTH: 1321  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-296-115-365

Query Match 44.5%; Score 1200.6; DB 17; Length 1321;  
Best Local Similarity 98.0%; Pred. No. 8.1e-301;  
Matches 1289; Conservative 0; Mismatches 19; Indels 7; Gaps 7;

Qy	1390	CACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCTCC	1449
Db	1	CACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCTCC	60
Qy	1450	ACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCTTC	1509
Db	61	ACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCTTC	120
Qy	1510	AACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCA	1569
Db	121	AACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTCCTCATCCCCCA	180
Qy	1570	GATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGAC	1629
Db	181	GATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGAC	240
Qy	1630	GTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCC	1689
Db	241	GTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCC	300
Qy	1690	CCT-GGCGTCCTGCTCACCCGGCCAGTCATCCT-GGCTATGGACCACTGT-GGGGAGCCC	1746
Db	301	CCTGGGCGTCCTGCTTACCCGGCCAGTCATCCTGGGGTATGGACCACTGTGGGGGAGCCC	360
Qy	1747	AGCCCTGACAGCT-GGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGA	1805
Db	361	AGCCCTGACAGCTGGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGA	420
Qy	1806	TGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAG	1865
Db	421	TGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAG	480
Qy	1866	TGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAG	1925
Db	481	TGCCTGCTACGTCTTCACCGAGCAGCTGAGCCGCTATGCCCTGGTGGGAGAGGCCCTCAG	540
Qy	1926	CGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTTCGCGCGGTGGCCTGCACCTCCCT	1985
Db	541	CGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTTCGCGCGGTGGCCTGCACCTCCCT	600
Qy	1986	CGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGT	2045
Db	601	CGAGTACAACATACTGGTCTACTGCCTGCATGACACTCACGATGCACTCAACGTAGTGGT	660

Qy	2046	GCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAA	2105
Db	661	GCAGCTGGAGAAGCAGCTGCAGGGACAGCTGATCCAGGAGCCACTGGTACTGCACTTCAA	720
Qy	2106	GGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAGAG	2165
Db	721	GGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAGAG	780
Qy	2166	TAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCG	2225
Db	781	TAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCG	840
Qy	2226	GTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTG	2285
Db	841	GTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTG	900
Qy	2286	CAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACAT	2345
Db	901	CAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACAT	960
Qy	2346	CACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGC	2405
Db	961	CACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGC	1020
Qy	2406	CCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTGGGCAGAAGATAATTTCCAG	2465
Db	1021	CCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTGGGCAGAAGATAATTTCCAG	1080
Qy	2466	CCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCT	2525
Db	1081	CCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCT	1140
Qy	2526	GGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCT	2585
Db	1141	GGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCT	1200
Qy	2586	GTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT-G	2644
Db	1201	GTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGG	1260
Qy	2645	GACTGGGCCAGCCAGACGCTGGCCTC-TTCACAGTG-TCGGAGGCTGAGTGCTGA	2697
Db	1261	GACTGGGCCAGCAGGACGGTGGCTTCTTTACAGTGTTTCGGAGGCTGAGTGCTGA	1315

# RESULT 12

US-10-087-684-1

; Sequence 1, Application US/10087684

; Publication No. US20040029116A1

## ; GENERAL INFORMATION:

; APPLICANT: Edinger, Shlomit R.

; APPLICANT: MacDougall, John R.

; APPLICANT: Millet, Isabelle

; APPLICANT: Ellerman, Karen

; APPLICANT: Stone, David J.

; APPLICANT: Grosse, William M.



```
; APPLICANT: Lepley, Denise M.
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Burgess, Cathereine E.
; APPLICANT: Casman, Stacie, J.
; APPLICANT: Spytek, Kimberly A.
; APPLICANT: Boldog, Ferenc L.
; APPLICANT: Li, Li
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Mishra, Vishnu
; APPLICANT: Shenoy, Suresh G.
; APPLICANT: Rastelli, Luca
; APPLICANT: Tchernev, Velizar T.
; APPLICANT: Vernet, Corine A.M.
; APPLICANT: Zerhusen, Bryan D.
; APPLICANT: Malyankar, Uriel M.
; APPLICANT: Guo, Xiaojia
; APPLICANT: Miller, Charles E.
; APPLICANT: Gangolli, Esha A.
; TITLE OF INVENTION: PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-214 CIP
; CURRENT APPLICATION NUMBER: US/10/087,684
; CURRENT FILING DATE: 2003-03-10
; PRIOR APPLICATION NUMBER: 60/253,834
; PRIOR FILING DATE: 2000-11-29
; PRIOR APPLICATION NUMBER: 60/250,926
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: 60/264,180
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 60/274,194
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: 60/313,656
; PRIOR FILING DATE: 2001-08-20
; PRIOR APPLICATION NUMBER: 60/327,456
; PRIOR FILING DATE: 2001-10-05
; NUMBER OF SEQ ID NOS: 220
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 1
; LENGTH: 2860
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (59)..(2857)
US-10-087-684-1
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Query Match          34.7%; Score 936.2; DB 17; Length 2860;
Best Local Similarity 61.7%; Pred. No. 2.8e-232;
Matches 1662; Conservative 0; Mismatches 938; Indels 93; Gaps 7;
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Qy      98 ACCCAGTGCCTGGTGCCAACCCGGACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATG 157
      || | | ||      ||      | || | ||| ||| ||||| ||||| |||| |
Db      168 ACTCCTTCCCGTCAGCGCCAGCAGAGCCGCTGCCCTACTTCCTGCAGGAGCCACAGGACG 227

Qy      158 TGTACATCGTCAAGAACAAGCCAGTGCTGCTTGTGTGCAAGGCCGTGCCCGCCACGCAGA 217
      ||||| || | ||||| ||||| ||| ||| ||| ||| | ||||| |||| |
Db      228 CCTACATTGTGAAGAACAAGCCTGTGGAGCTCCGCTGCCGCGCCTTCCCCGCCACACAGA 287
```

Qy	218	TCTTCTTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCA	277
Db	288	TCTACTTCAAGTGAACGGCGAGTGGGTGAGCCAGAACGACCACGTACACAGGAAGGCC	347
Qy	278	CAGACGGGAGCAGTGGGCTGCCACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGG	337
Db	348	TGGATGAGGCCACCGGTCTGCGGGTGCGCGAGGTGCAGATCGAGGTGTCGCGGCAGCAGG	407
Qy	338	TCGAGAAGGTGTTCTGGGCTGGAGGAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGG	397
Db	408	TGGAGGAGCTCTTTGGGCTGGAGGATTACTGGTGCCAGTGCGTGGCCTGGAGCTCCGCGG	467
Qy	398	GCACCACCAAGAGTCAGAAGGCCCTACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGC	457
Db	468	GCACCACCAAGAGTCGCCGAGCCTACGTCCGCATCGCCTACCTGCGCAAGAACTTCGATC	527
Qy	458	AGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCAC	517
Db	528	AGGAGCCTCTGGGCAAGGAGGTGCCCTGGACCATGAGGTTCTCCTGCAGTGCCGCCCGC	587
Qy	518	CGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGT	577
Db	588	CGGAGGGGTGCCTGTGGCCGAGGTGGAATGGCTCAAGAAATGAGGATGTCATCGACCCCA	647
Qy	578	CCCTGGACCCCAATGTATACATCACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCC	637
Db	648	CCCAGGACACCAACTTCCTGCTCACCATCGACCACAACCTCATCATCCGCCAGGCCCGCC	707
Qy	638	TTGCTGACACGGCCAACCTACACCTGCGTGGCCAAGAACATCGTGGCACGTGCGCCGAGCG	697
Db	708	TGTCGGACACTGCCAACTATACCTGCGTGGCCAAGAACATCGTGGCCAAACGCCGAGCA	767
Qy	698	CCTCCGCTGCTGTCTCATCGTCTACGTGAACGGTGGGTGGTCGACGTGGACCGAGTGGTCCG	757
Db	768	CCACTGCCACCGTCATCGTCTACGTGAATGGCGGCTGGTCCAGCTGGGCAGAGTGGTCAC	827
Qy	758	TCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGG	817
Db	828	CCTGCTCCAACCGCTGTGGCCGAGGCTGGCAGAAAGCGACCCGGACCTGCACCAACCCCG	887
Qy	818	CGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCA	877
Db	888	CTCCACTCAACGGAGGGGCTTCTGCGAGGGCCAGGCATTCCAGAAGACCGCCTGCACCA	947
Qy	878	CCCTGTGCCCAGTAGACGGCAGCTGGAGCCCGTGAGCAAGTGGTTCGGCCTGTGGGCTGG	937
Db	948	CCATCTGCCAGTCGATGGGGCGTGGACGGAGTGGAGCAAGTGGTCAGCCTGCAGCACTG	1007
Qy	938	ACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGACCCAGCACCCGCAACGGAGGGGAGG	997
Db	1008	AGTGTGCCCACTGGCGTAGCCGCGAGTGCATGGCGCCCCACCCAGAACGGAGGCCGTG	1067
Qy	998	AGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCAGTGACCTCTGTGTACACAGTG	1057
Db	1068	ACTGCAGCGGGACGCTGCTCGACTCTAAGAACTGCACAGATGGGCTGTGCATGCAACTGG	1127
Qy	1058	CTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGG	1117

Db	1128	AGGCCTCAGGGGATGCGGCGCTGTATGCGGGGCTCGTGGTGGCCATCTTCGTGGTCTGTGG	1187
Qy	1118	TCCTGCTGCTGCTTGTCTCATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAG	1177
Db	1188	CAATCCTCATGGCGGTGGGGGTGGTGGTGTACCGCCGCAACTGCCGTGACTTCGACACAG	1247
Qy	1178	ATGTGGCTGACTCGTCCATT---CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCA	1234
Db	1248	ACATCACTGACTCATCTGCTGCCCTGACTGGTGGTTTCCACCCCGTCAACTTTAAGACGG	1307
Qy	1235	GCAAAGCAGACAACCCCCATCTGCT-----CACCATCCAGCCGGACCTCAGCACCACCA	1288
Db	1308	CAAGGCCAGTAACCCGCAGCTCCTACACCCCTCTGTGCCTCCTGACCTGACAGCCAGCG	1367
Qy	1289	CCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGA-----	1325
Db	1368	CCGGCATCTACCGCGGACCCGTGTATGCCCTGCAGGACTCCACCGACAAAATCCCCATGA	1427
Qy	1326	-----TGGGCCCAGCCCCAAGTTCCAGCTCACCA-----	1354
Db	1428	CCAACTCTCCTCTGCTGGACCCCTTACCCAGCCTTAAGGTCAAGGTCTACAGCTCCAGCA	1487
Qy	1355	--ATGGGCACCTGCTCAGCCCCCTGGGTGGCGGCCGCCACAC-----ACTGCACC	1402
Db	1488	CCACGGGCTCTGGGCCAGGCCTGGCAGATGGGGCTGACCTGCTGGGGGTCTTGCCGCCTG	1547
Qy	1403	ACAGCTCTCCACCTCTGAGGCCGAGGAGTTCTGCTCTCCGCCTCTCCACCAGAATACTACT	1462
Db	1548	GCACATACCCTAGCGATTTGCCCCGGGACACCCACTTCCTGCACCTGCGCAGCGCCAGCC	1607
Qy	1463	TCCGCTC-----CCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCT	1507
Db	1608	TCGGTTCCCAGCAGCTCTTGGGCCTGCCCCGAGACCCAGGGAGCAGCGTCAGCGGCACCT	1667
Qy	1508	TCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCC	1567
Db	1668	TTGGCTGCCTGGGTGGGAGGCTCAGCATCCCCGGCACAGGGGTGAGCTTGTGGTGGCCA	1727
Qy	1568	CAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAG	1627
Db	1728	ATGGAGCCATTCCCAGGGCAAGTTCTACGAGATGTATCTACTCATCAACAAGGCAGAAA	1787
Qy	1628	ACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGAC	1687
Db	1788	GTACCCTGCCGCTTTCAGAAGGGACCCAGACAGTATTGAGCCCCTCGGTGACCTGTGGAC	1847
Qy	1688	CCCCTGGCGTCCTGCTACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCA	1747
Db	1848	CCACAGGCCTCCTGCTGTGCCGCCCGTCATCCTCACCATGCCCCACTGTGCCGAAGTCA	1907
Qy	1748	GCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATG	1807
Db	1908	GTGCCCGTGACTGGATCTTTCAGCTCAAGACCCAGGCCACCAGGGCCACTGGGAGGAGG	1967
Qy	1808	TGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTG	1867

Db 1968 TGGTGACCCTGGATGAGGAGACCCTGAACACACCCTGCTACTGCCAGCTGGAGCCCAGGG 2027  
 Qy 1868 CCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCG 1927  
 |||| || || | || ||||| || | | || || || |  
 Db 2028 CCTGTCACATCCTGCTGGACCAGCTGGGCACCTACGTGTTACGGGCGAGTCTATTCCC 2087  
 Qy 1928 TGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCG 1987  
 | || | |||| || |||| | || || | | ||||| ||  
 Db 2088 GCTCAGCAGTCAAGCGGCTCCAGCTGGCCGTCTTCGCCCCGCCCCTCTGCACCTCCCTGG 2147  
 Qy 1988 AGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGC 2047  
 ||||| | ||||| ||||| ||||| | | |||| | ||||| ||  
 Db 2148 AGTACAGCCTCCGGGTCTACTGCCTGGAGGACACGCCTGTAGCACTGAAGGAGGTGCTGG 2207  
 Qy 2048 AGCTGGAGAAGCAGCTGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGG 2107  
 ||||| | | |||| || | || | ||||| || |||||  
 Db 2208 AGCTGGAGCGGACTCTGGGCGGATACTTGGTGGAGGAGCCGAAACCGCTAATGTTCAAGG 2267  
 Qy 2108 ACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTA 2167  
 ||||| ||||| ||||| || |||| || | || | || |||| ||||  
 Db 2268 ACAGTTACCACAACCTGCGCCTCTCCCTCCATGACCTCCCCATGCCCATTTGGAGGAGCA 2327  
 Qy 2168 AGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGT 2227  
 |||| || | || ||||| ||||| ||||| |||| |||| || |  
 Db 2328 AGCTGCTGGCCAAATACCAGGAGATCCCCTTCTATCACATTTGGAGTGGCAGCCAGAAGG 2387  
 Qy 2228 ACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCA 2287  
 | ||||| ||||| ||||| || || | || | |||||  
 Db 2388 CCCTCCACTGCACTTTACCCTGGAGAGGCACAGCTTGGCCTCCACAGAGCTCACCTGCA 2447  
 Qy 2288 AGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATCA 2347  
 || | || || || |||| || || || || || || || | | || |  
 Db 2448 AGATCTGCGTGCGGCAAGTGGAAGGGGAGGGCCAGATATTCCAGCTGCATACCACTCTGG 2507  
 Qy 2348 CCAAG---GACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAG 2404  
 | || | | || || || || | || || || ||  
 Db 2508 CAGAGACACCTGCTGGCTCCCTGGACACTCTCTGCTCTGCCCCTGGCAGCACTGTACCA 2567  
 Qy 2405 CCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCA 2464  
 ||| | |||| || ||||| ||||| | || || ||||| ||  
 Db 2568 CCCAGCTGGGACCTTATGCCTTCAAGATCCCCTGTCCATCCGCCAGAAGATATGCAACA 2627  
 Qy 2465 GCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACC 2524  
 |||| || | || |||| ||||| ||||| || ||||| ||  
 Db 2628 GCCTAGATGCCCCAACTCACGGGGCAATGACTGGCGGATGTTAGCACAGAAGCTCTCTA 2687  
 Qy 2525 TGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACC 2584  
 |||| | | || | ||||| |||| | ||||| | ||||| ||  
 Db 2688 TGGACCGGTACCTGAATTACTTTGCCACCAAAGCGAGCCCCACGGGTGTGATCCTGGACC 2747  
 Qy 2585 TGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTG 2644  
 | |||| || | || | || || |||| | |||| || || ||  
 Db 2748 TCTGGGAAGCTCTGCAGCAGGACGATGGGGACCTCAACAGCCTGGCGAGTGCCTTGGAGG 2807  
 Qy 2645 GACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGCGAGGCTGAGTGCTGA 2697  
 |||| || || | | | || || || || || || ||  
 Db 2808 AGATGGGCAAGAGTGAGATGCTGGTGGCTGTGGCCACCGACGGGGACTGCTGA 2860

RESULT 13

US-10-087-684-3

; Sequence 3, Application US/10087684  
; Publication No. US20040029116A1  
; GENERAL INFORMATION:  
; APPLICANT: Edinger, Shlomit R.  
; APPLICANT: MacDougall, John R.  
; APPLICANT: Millet, Isabelle  
; APPLICANT: Ellerman, Karen  
; APPLICANT: Stone, David J.  
; APPLICANT: Grosse, William M.  
; APPLICANT: Lepley, Denise M.  
; APPLICANT: Rieger, Daniel K.  
; APPLICANT: Burgess, Cathereine E.  
; APPLICANT: Casman, Stacie, J.  
; APPLICANT: Spytek, Kimberly A.  
; APPLICANT: Boldog, Ferenc L.  
; APPLICANT: Li, Li  
; APPLICANT: Padigaru, Muralidhara  
; APPLICANT: Mishra, Vishnu  
; APPLICANT: Shenoy, Suresh G.  
; APPLICANT: Rastelli, Luca  
; APPLICANT: Tchernev, Velizar T.  
; APPLICANT: Vernet, Corine A.M.  
; APPLICANT: Zerhusen, Bryan D.  
; APPLICANT: Malyankar, Uriel M.  
; APPLICANT: Guo, Xiaojia  
; APPLICANT: Miller, Charles E.  
; APPLICANT: Gangolli, Esha A.  
; TITLE OF INVENTION: PROTEINS AND NUCLEIC ACIDS ENCODING SAME  
; FILE REFERENCE: 21402-214 CIP  
; CURRENT APPLICATION NUMBER: US/10/087,684  
; CURRENT FILING DATE: 2003-03-10  
; PRIOR APPLICATION NUMBER: 60/253,834  
; PRIOR FILING DATE: 2000-11-29  
; PRIOR APPLICATION NUMBER: 60/250,926  
; PRIOR FILING DATE: 2000-11-30  
; PRIOR APPLICATION NUMBER: 60/264,180  
; PRIOR FILING DATE: 2001-01-25  
; PRIOR APPLICATION NUMBER: 60/274,194  
; PRIOR FILING DATE: 2001-03-08  
; PRIOR APPLICATION NUMBER: 60/313,656  
; PRIOR FILING DATE: 2001-08-20  
; PRIOR APPLICATION NUMBER: 60/327,456  
; PRIOR FILING DATE: 2001-10-05  
; NUMBER OF SEQ ID NOS: 220  
; SOFTWARE: CuraSeqList version 0.1  
; SEQ ID NO 3  
; LENGTH: 2860  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (59)..(2857)  
US-10-087-684-3

Query Match 34.7%; Score 936.2; DB 17; Length 2860;  
 Best Local Similarity 61.7%; Pred. No. 2.8e-232;  
 Matches 1662; Conservative 0; Mismatches 938; Indels 93; Gaps 7;

Qy	98	ACCCAGTGCCTGGTGCCAACCCGGACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATG	157
Db	168	ACTCCTTCCCGTCAGCGCCAGCAGAGCCGCTGCCCTACTTCCTGCAGGAGCCACAGGACG	227
Qy	158	TGTACATCGTCAAGAACAAGCCAGTGTGCTTGTGTGCAAGGCCGTGCCCGCCACGCAGA	217
Db	228	CCTACATTGTGAAGAACAAGCCTGTGGAGCTTCGCTGCCGCGCCTTCCCCGCCACACAGA	287
Qy	218	TCTTCTTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCA	277
Db	288	TCTACTTCAAGTGCAACGGCGAGTGGGTGAGCCAGAACGACCACGTACACAGGAAGGCC	347
Qy	278	CAGACGGGAGCAGTGGGCTGCCCACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGG	337
Db	348	TGGATGAGGCCACCGGCCTGCGGGTGC GCGAGGTGCAGATCGAGGTGTGCGGGCAGCAGG	407
Qy	338	TCGAGAAGGTGTTTCGGGCTGGAGGAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGG	397
Db	408	TGGAGGAGCTCTTTGGGCTGGAGGATTACTGGTGCCAGTGCGTGGCCTGGAGCTCCGCAG	467
Qy	398	GCACCACCAAGAGTCAGAAGGCCTACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGC	457
Db	468	GCACCACCAAGAGTCGCCGAGCCTACGTCCGCATCGCCTACCTGCGCAAGAACTTCGATC	527
Qy	458	AGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCAC	517
Db	528	AGGAGCCTCTGGGCAAGGAGGTGCCCTGGACCATGAGGTTCTCCTGCAGTGCCGCCCCGC	587
Qy	518	CGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGT	577
Db	588	CGGAGGGGGTGCCTGTGGCCGAGGTGGAATGGCTCAAGAATGAGGATGTCATCGACCCCA	647
Qy	578	CCCTGGACCCCAATGTATACATCACGCGGGAGCACAGCCTGGTGGTGCAGACAGGCCCGCC	637
Db	648	CCCAGGACACCAACTTCCTGCTCACCATCGACCACAACCTCATCATCCGCCAGGCCCGCC	707
Qy	638	TTGCTGACACGGCCAACCTACACCTGCGTGGCCAAGAACATCGTGGCACGTGCGCCGAGCG	697
Db	708	TGTCGGACACTGCCAACTATACCTGCGTGGCCAAGAACATCGTGGCCAACGCGGAGCA	767
Qy	698	CCTCCGCTGCTGTCTCATCGTCTACGTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCG	757
Db	768	CCACTGCCACCGTCATCGTCTACGTGAATGGCGGCTGGTCCAGCTGGGCAGAGTGGTCAC	827
Qy	758	TCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGG	817
Db	828	CCTGCTCCAACCGCTGTGGCCGAGGCTGGCAGAAAGCGACCCGGACCTGCACCAACCCCG	887
Qy	818	CGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCGAGAATGTCCAGAAAACAGCCTGCGCCA	877
Db	888	CTCCACTCAACGGAGGGGCCTTCTGCGAGGGCCAGGCATTCCAGAAGACCGCCTGCACCA	947

Qy	878	CCCTGTGCCCAAGTAGACGGCAGCTGGAGCCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGG	937
Db	948	CCATCTGCCCAGTCGATGGGGCGTGGACGGAGTGGAGCAAGTGGTCAGCCTGCAGCACTG	1007
Qy	938	ACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGG	997
Db	1008	AGTGTGCCCACTGGCGTAGCCGCGAGTGCATGGCGCCCCACCCAGAACGGAGGCCGTG	1067
Qy	998	AGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCACTGACCTCTGTGTACACAGTG	1057
Db	1068	ACTGCAGCGGGACGCTGCTCGACTCTAAGAACTGCACAGATGGGCTGTGCATGCAACTGG	1127
Qy	1058	CTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGGCCCTCATCGCCGTGGCCGTCTGCCTGG	1117
Db	1128	AGGCCTCAGGGGATGCGGCGCTGTATGCGGGGCTCGTGGTGGCCATCTTCGTGGTCGTGG	1187
Qy	1118	TCCTGCTGCTGCTTGTCCCTCATCCTCGTTTATTGCCGGAAGAAGGAGGGGGCTGGACTCAG	1177
Db	1188	CAATCCTCATGGCGGTGGGGGTGGTGGTGTACCGCCGCAACTGCCGTGACTTCGACACAG	1247
Qy	1178	ATGTGGCTGACTCGTCCATT---CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCA	1234
Db	1248	ACATCACTGACTCATCTGCTGCCCTGACTGGTGGTTTCCACCCCGTCAACTTTAAGACGG	1307
Qy	1235	GCAAAGCAGACAACCCCCATCTGCT-----CACCATCCAGCCGGACCTCAGCACCACCA	1288
Db	1308	CAAGGCCCAGTAACCCGAGCTCCTACACCCCTCTGTGCCTCCTGACCTGACAGCCAGCG	1367
Qy	1289	CCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGA-----	1325
Db	1368	CCGGCATCTACCGCGGACCCGTGTATGCCCTGCAGGACTCCACCACAAAATCCCCATGA	1427
Qy	1326	-----TGGGCCCAGCCCAAGTTCAGCTCACCA-----	1354
Db	1428	CCAACTCTCCTCTGCTGGACCCCTTACCAGCCCTTAAGGTCAAGGTCTACAGCTCCAGCA	1487
Qy	1355	--ATGGGCACCTGCTCAGCCCCCTGGGTGGCGGCCGCCACAC-----ACTGCACC	1402
Db	1488	CCACGGGCTCTGGGCCAGGCCTGGCAGATGGGGCTGACCTGCTGGGGGTCTTGCCGCCTG	1547
Qy	1403	ACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCTCCACCCAGAATACT	1462
Db	1548	GCACATAACCCTAGCGATTTCGCCCCGGGACACCCACTTCCTGCACCTGCGCAGCGCCAGCC	1607
Qy	1463	TCCGCTC-----CCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCT	1507
Db	1608	TCGGTTCCACAGCAGCTCTTGGGCTGCCCGAGACCCAGGGAGCAGCGTCAGCGGCACCT	1667
Qy	1508	TCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCC	1567
Db	1668	TTGGCTGCCTGGGTGGGAGGCTCAGCATCCCCGGCACAGGGGTGAGCTTGCTGGTGCCCA	1727
Qy	1568	CAGATGCCATAACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAG	1627
Db	1728	ATGGAGCCATTCCCCAGGGCAAGTTCTACGAGATGTATCTACTCATCAACAAGGCAGAAA	1787
Qy	1628	ACGTGAGGTTGCCCTTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGAC	1687

Db	1788	GTACCCTGCCGCTTTTCAGAAAGGGACCCAGACAGTATTGAGCCCCCTCGGTGACCTGTGGAC	1847
Qy	1688	CCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCA	1747
Db	1848	CCACAGGCCTCCTGCTGTGCCGCCCGTCATCCTCACCATGCCCCACTGTGCCGAAGTCA	1907
Qy	1748	GCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATG	1807
Db	1908	GTGCCCCGTGACTGGATCTTTCAGCTCAAGACCCAGGCCACCAGGGCCACTGGGAGGAGG	1967
Qy	1808	TGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTG	1867
Db	1968	TGGTGACCCTGGATGAGGAGACCCTGAACACACCCTGCTACTGCCAGCTGGAGCCCAGGG	2027
Qy	1868	CCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCG	1927
Db	2028	CCTGTCACATCCTGCTGGACCAGCTGGGCACCTACGTGTTACGGGCGAGTCCTATTCCC	2087
Qy	1928	TGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCG	1987
Db	2088	GCTCAGCAGTCAAGCGGCTCCAGCTGGCCGTCTTCGCCCCCGCCCTCTGCACCTCCCTGG	2147
Qy	1988	AGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGC	2047
Db	2148	AGTACAGCCTCCGGGTCTACTGCCTGGAGGACACGCCTGTAGCACTGAAGGAGGTGCTGG	2207
Qy	2048	AGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGG	2107
Db	2208	AGCTGGAGCGGACTCTGGGCGGATACTTGGTGGAGGAGCCGAAACCGCTAATGTTCAAGG	2267
Qy	2108	ACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAGAGTA	2167
Db	2268	ACAGTTACCACAACCTGCGCCTCTCCCTCCATGACCTCCCCCATGCCATTGGAGGAGCA	2327
Qy	2168	AGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGT	2227
Db	2328	AGCTGCTGGCCAAATACCAGGAGATCCCCTTCTATCACATTTGGAGTGGCAGCCAGAAGG	2387
Qy	2228	ACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCA	2287
Db	2388	CCCTCCACTGCACTTTACCCTGGAGAGGCACAGCTTGGCCTCCACAGAGCTCACCTGCA	2447
Qy	2288	AGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATCA	2347
Db	2448	AGATCTGCGTGCGGCAAGTGGAAGGGGAGGGCCAGATATTCCAGCTGCATACCACTCTGG	2507
Qy	2348	CCAAG---GACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAG	2404
Db	2508	CAGAGACACCTGCTGGCTCCCTGGACACTCTCTGCTCTGCCCCTGGCAGCACTGTCACCA	2567
Qy	2405	CCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCCTTCCTCATTCGGCAGAAGATAATTTCCA	2464
Db	2568	CCCAGCTGGGACCTTATGCCTTCAAGATCCCAGTGTCCATCCGCCAGAAGATATGCAACA	2627
Qy	2465	GCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACC	2524



Db 2628 GCCTAGATGCCCCCAACTCACGGGGCAATGACTGGCGGATGTTAGCACAGAAGCTCTCTA 2687  
 Qy 2525 TGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACC 2584  
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 Db 2688 TGGACCGGTACCTGAATTACTTTGCCACCAAAGCGAGCCCCACGGGTGTGATCCTGGACC 2747  
 Qy 2585 TGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTG 2644  
 | ||||| || | || | | || ||||| | |||| | || || |  
 Db 2748 TCTGGGAAGCTCTGCAGCAGGACGATGGGGACCTCAACAGCCTGGCGAGTGCCTTGGAGG 2807  
 Qy 2645 GACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGCGGAGGCTGAGTGCTGA 2697  
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 Db 2808 AGATGGGCAAGAGTGAGATGCTGGTGGCTGTGGCCACCGACGGGGACTGCTGA 2860

RESULT 14

US-10-218-779-1

; Sequence 1, Application US/10218779  
 ; Publication No. US20040029222A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Edinger, Shlomit  
 ; APPLICANT: MacDougall, John  
 ; APPLICANT: Millet, Isabelle  
 ; APPLICANT: Ellerman, Karen  
 ; APPLICANT: Stone, David  
 ; APPLICANT: Gerlach, Valerie  
 ; APPLICANT: Grosse, William  
 ; APPLICANT: Alsobrook II, John  
 ; APPLICANT: Lepley, Denise  
 ; APPLICANT: Rieger, Daniel  
 ; APPLICANT: Burgess, Catherine  
 ; APPLICANT: Casman, Stacie  
 ; APPLICANT: Spytek, Kimberly  
 ; APPLICANT: Boldog, Ferenc  
 ; APPLICANT: Li, Li  
 ; APPLICANT: Padigar, Muralidhara  
 ; APPLICANT: Mishra, Vishnu  
 ; APPLICANT: Patturajan, Meera  
 ; APPLICANT: Shenoy, Suresh  
 ; APPLICANT: Rastelli, Luca  
 ; APPLICANT: Tchernev, Velizar  
 ; APPLICANT: Vernet, Corine  
 ; APPLICANT: Zerhusen, Bryan  
 ; APPLICANT: Malyankar, Uriel  
 ; APPLICANT: Guo, Xiaojia  
 ; APPLICANT: Miller, Charles  
 ; APPLICANT: Gangolli, Esha  
 ; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same  
 ; FILE REFERENCE: 21402-214  
 ; CURRENT APPLICATION NUMBER: US/10/218,779  
 ; CURRENT FILING DATE: 2002-08-14  
 ; PRIOR APPLICATION NUMBER: 60/253,834  
 ; PRIOR FILING DATE: 2000-11-29  
 ; PRIOR APPLICATION NUMBER: 60/250,-926  
 ; PRIOR FILING DATE: 2000-11-30  
 ; PRIOR APPLICATION NUMBER: 60/264,180  
 ; PRIOR FILING DATE: 2001-01-25

; PRIOR APPLICATION NUMBER: 60/313,656  
 ; PRIOR FILING DATE: 2001-08-20  
 ; PRIOR APPLICATION NUMBER: 60/327,456  
 ; PRIOR FILING DATE: 2001-10-05  
 ; NUMBER OF SEQ ID NOS: 216  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 1  
 ; LENGTH: 2860  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-10-218-779-1

Query Match 34.7%; Score 936.2; DB 17; Length 2860;  
 Best Local Similarity 61.7%; Pred. No. 2.8e-232;  
 Matches 1662; Conservative 0; Mismatches 938; Indels 93; Gaps 7;

Qy	98	ACCCAGTGCCTGGTGCCAACCCGGACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATG	157
Db	168	ACTCCTTCCCGTCAGCGCCAGCAGAGCCGCTGCCCTACTTCCTGCAGGAGCCACAGGACG	227
Qy	158	TGTACATCGTCAAGAACAAGCCAGTGCTGCTTGTGTGCAAGGCCGTGCCCCGCCACGCAGA	217
Db	228	CCTACATTGTGAAGAACAAGCCTGTGGAGCTCCGCTGCCGCGCCTTCCCCGCCACACAGA	287
Qy	218	TCTTCTTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCA	277
Db	288	TCTACTTCAAGTGCAACGGCGAGTGGGTGAGCCAGAACGACCACGTACACAGGAAGGCC	347
Qy	278	CAGACGGGAGCAGTGGGCTGCCCACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGG	337
Db	348	TGGATGAGGCCACCGGTCTGCGGGTGCGCGAGGTGCAGATCGAGGTGTCGCGGCAGCAGG	407
Qy	338	TCGAGAAGGTGTTTCGGGCTGGAGGAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGG	397
Db	408	TGGAGGAGCTCTTTGGGCTGGAGGATTACTGGTGCCAGTGCGTGGCCTGGAGCTCCGCGG	467
Qy	398	GCACCACCAAGAGTCAGAAGGCCTACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGC	457
Db	468	GCACCACCAAGAGTCGCGGAGCCTACGTCCGCATCGCCTACCTGCGCAAGAACTTCGATC	527
Qy	458	AGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCAC	517
Db	528	AGGAGCCTCTGGGCAAGGAGGTGCCCCTGGACCATGAGGTTCTCCTGCAGTGCCGCCCGC	587
Qy	518	CGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGT	577
Db	588	CGGAGGGGGTGCCTGTGGCCGAGGTGGAATGGCTCAAGAATGAGGATGTCATCGACCCCA	647
Qy	578	CCCTGGACCCCAATGTATACATCACGCGGAGCACAGCCTGGTGGTGCACAGGCCCGCC	637
Db	648	CCCAGGACACCAACTTCCTGCTCACCATCGACCACAACCTCATCATCCGCCAGGCCCGCC	707
Qy	638	TTGCTGACACGGCCAACCTACACCTGCGTGGCCAAGAACATCGTGGCACGTGCGCGCAGCG	697
Db	708	TGTCGGACACTGCCAACTATACCTGCGTGGCCAAGAACATCGTGGCCAACGCCGGAGCA	767
Qy	698	CCTCCGCTGCTGTCATCGTCTACGTGAACGGTGGGTGGTGCAGTGGACCGAGTGGTCCG	757

Db 768 CCACTGCCACCGTCATCGTCTACGTGAATGGCGGCTGGTCCAGCTGGGCAGAGTGGTCAC 827  
 Qy 758 TCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGG 817  
 Db 828 CCTGCTCCAACCGCTGTGGCCGAGGCTGGCAGAAGCGCACCCGGACCTGCACCAACCCCG 887  
 Qy 818 CGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCA 877  
 Db 888 CTCCACTCAACGGAGGGGCTTCTGCGAGGGCCAGGCATTCCAGAAGACCGCCTGCACCA 947  
 Qy 878 CCCTGTGCCCAGTAGACGGCAGCTGGAGCCCCTGGAGCAAGTGGTCCGGCCTGTGGGCTGG 937  
 Db 948 CCATCTGCCCAGTCGATGGGGCGTGGACGGAGTGGAGCAAGTGGTCCAGCCTGCAGCACTG 1007  
 Qy 938 ACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGG 997  
 Db 1008 AGTGTGCCCAGTGGCGTAGCCGCGAGTGCATGGCGCCCCACCCAGAACGGAGGGCCGTG 1067  
 Qy 998 AGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCAAGTACCTCTGTGTACACAGTG 1057  
 Db 1068 ACTGCAGCGGGACGCTGCTCGACTCTAAGAACTGCACAGATGGGCTGTGCATGCAACTGG 1127  
 Qy 1058 CTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGG 1117  
 Db 1128 AGGCCTCAGGGGATGCGGCGCTGTATGCGGGGCTCGTGGTGGCCATCTTCGTGGTCTGG 1187  
 Qy 1118 TCCTGCTGCTGCTTGTCTCATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAG 1177  
 Db 1188 CAATCCTCATGGCGGTGGGGGTGGTGGTGTACCGCCGCAACTGCCGTGACTTCGACACAG 1247  
 Qy 1178 ATGTGGCTGACTCGTCCATT---CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCA 1234  
 Db 1248 ACATCACTGACTCATCTGCTGCCCTGACTGGTGGTTTCCACCCCGTCAACTTTAAGACGG 1307  
 Qy 1235 GCAAAGCAGACAACCCCATCTGCT-----CACCATCCAGCCGGACCTCAGCACCACCA 1288  
 Db 1308 CAAGGCCAGTAACCCGAGCTCCTACACCCCTCTGTGCCTCCTGACCTGACAGCCAGCG 1367  
 Qy 1289 CCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGA----- 1325  
 Db 1368 CCGGCATCTACCGCGGACCCGTGTATGCCCTGCAGGACTCCACCGACAAAATCCCCATGA 1427  
 Qy 1326 -----TGGGCCAGCCCCAAGTTCCAGCTCACCA----- 1354  
 Db 1428 CCAACTCTCCTCTGCTGGACCCCTTACCCAGCCTTAAGGTCAAGGTCTACAGCTCCAGCA 1487  
 Qy 1355 --ATGGGCACCTGCTCAGCCCCCTGGGTGGCGGCCGCCACAC-----ACTGCACC 1402  
 Db 1488 CCACGGGCTCTGGGCCAGGCCTGGCAGATGGGGCTGACCTGCTGGGGGTCTTGCCGCCTG 1547  
 Qy 1403 ACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCTCCACCCAGAACTACT 1462  
 Db 1548 GCACATACCCTAGCGATTTGCCCCGGGACACCCACTTCCTGCACCTGCGCAGCGCCAGCC 1607  
 Qy 1463 TCCGCTC-----CCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCT 1507

Db 1608 TCGGTTCCCAGCAGCTCTTGGGCCTGCCCCGAGACCCAGGGAGCAGCGTCAGCGGCACCT 1667  
 Qy 1508 TCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCC 1567  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1668 TTGGCTGCCTGGGTGGGAGGCTCAGCATCCCCGGCACAGGGGTAGCTTGCTGGTGCCCA 1727  
 Qy 1568 CAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAG 1627  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1728 ATGGAGCCATTCCCCAGGGCAAGTTCTACGAGATGTATCTACTCATCAACAAGGCAGAAA 1787  
 Qy 1628 ACGTGAGGTTGCCCTAGCTGGCTGTGAGACCCTGCTGAGTCCCATCGTTAGCTGTGGAC 1687  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1788 GTACCCTGCCGCTTTCAGAAGGGACCCAGACAGTATTGAGCCCCTCGGTGACCTGTGGAC 1847  
 Qy 1688 CCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCA 1747  
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 Db 1848 CCACAGGCCTCCTGCTGTGCCGCCCGTCATCCTCACCATGCCCCACTGTGCCGAAGTCA 1907  
 Qy 1748 GCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATG 1807  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1908 GTGCCCCGTGACTGGATCTTTCAGCTCAAGACCCAGGCCACCAGGGCCACTGGGAGGAGG 1967  
 Qy 1808 TGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTG 1867  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1968 TGGTGACCCTGGATGAGGAGACCCTGAACACACCCTGCTACTGCCAGCTGGAGCCCAGGG 2027  
 Qy 1868 CCTGTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCG 1927  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 2028 CCTGTCACATCCTGCTGGACCAGCTGGGCACCTACGTGTTACGGGCGAGTCTATTCCC 2087  
 Qy 1928 TGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCG 1987  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 2088 GCTCAGCAGTCAAGCGGCTCCAGCTGGCCGTCTTCGCCCCCGCCCTCTGCACCTCCCTGG 2147  
 Qy 1988 AGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGC 2047  
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 Db 2148 AGTACAGCCTCCGGGTCTACTGCCTGGAGGACACGCCTGTAGCACTGAAGGAGGTGCTGG 2207  
 Qy 2048 AGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGG 2107  
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 Db 2208 AGCTGGAGCGGACTCTGGGCGGATACTTGGTGGAGGAGCCGAAACCGCTAATGTTCAAGG 2267  
 Qy 2108 ACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTA 2167  
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 Db 2268 ACAGTTACCACAACCTGCGCCTCTCCCTCCATGACCTCCCCATGCCATTGGAGGAGCA 2327  
 ...  
 Qy 2168 AGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGT 2227  
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 Db 2328 AGCTGCTGGCCAAATACCAGGAGATCCCCTTCTATCACATTTGGAGTGGCAGCCAGAAGG 2387  
 Qy 2228 ACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCA 2287  
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 Db 2388 CCCTCCACTGCACTTTCACCCTGGAGAGGCACAGCTTGGCCTCCACAGAGCTCACCTGCA 2447  
 Qy 2288 AGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATCA 2347  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 2448 AGATCTGCGTGCGCAAGTGGAAGGGGAGGGCCAGATATTCCAGCTGCATACCACTCTGG 2507

Qy 2348 CCAAG---GACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAG 2404  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 2508 CAGAGACACCTGCTGGCTCCCTGGACACTCTCTGCTCTGCCCCTGGCAGCACTGTACCA 2567  
 Qy 2405 CCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCA 2464  
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 Db 2568 CCCAGCTGGGACCTTATGCCTTCAAGATCCCCTGTCCATCCGCCAGAAGATATGCAACA 2627  
 Qy 2465 GCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACC 2524  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 2628 GCCTAGATGCCCCCAACTCACGGGGCAATGACTGGCGGATGTTAGCACAGAAGCTCTCTA 2687  
 Qy 2525 TGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACC 2584  
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 Db 2688 TGGACCGGTACCTGAATTACTTTGCCACCAAAGCGAGCCCCACGGGTGTGATCCTGGACC 2747  
 Qy 2585 TGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTG 2644  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 2748 TCTGGGAAGCTCTGCAGCAGGACGATGGGGACCTCAACAGCCTGGCGAGTGCCTTGGAGG 2807  
 Qy 2645 GACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCCGAGGCTGAGTGCTGA 2697  
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 Db 2808 AGATGGGCAAGAGTGAGATGCTGGTGGCTGTGGCCACCGACGGGGACTGCTGA 2860

RESULT 15

US-10-218-779-3

; Sequence 3, Application US/10218779

; Publication No. US20040029222A1

; GENERAL INFORMATION:

; APPLICANT: Edinger, Shlomit  
 ; APPLICANT: MacDougall, John  
 ; APPLICANT: Millet, Isabelle  
 ; APPLICANT: Ellerman, Karen  
 ; APPLICANT: Stone, David  
 ; APPLICANT: Gerlach, Valerie  
 ; APPLICANT: Grosse, William  
 ; APPLICANT: Alsobrook II, John  
 ; APPLICANT: Lepley, Denise  
 ; APPLICANT: Rieger, Daniel  
 ; APPLICANT: Burgess, Catherine  
 ; APPLICANT: Casman, Stacie  
 ; APPLICANT: Spytek, Kimberly  
 ; APPLICANT: Boldog, Ferenc  
 ; APPLICANT: Li, Li  
 ; APPLICANT: Padigaru, Muralidhara  
 ; APPLICANT: Mishra, Vishnu  
 ; APPLICANT: Patturajan, Meera  
 ; APPLICANT: Shenoy, Suresh  
 ; APPLICANT: Rastelli, Luca  
 ; APPLICANT: Tchernev, Velizar  
 ; APPLICANT: Vernet, Corine  
 ; APPLICANT: Zerhusen, Bryan  
 ; APPLICANT: Malyankar, Uriel  
 ; APPLICANT: Guo, Xiaojia  
 ; APPLICANT: Miller, Charles

```

; APPLICANT: Gangolli, Esha
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-214
; CURRENT APPLICATION NUMBER: US/10/218,779
; CURRENT FILING DATE: 2002-08-14
; PRIOR APPLICATION NUMBER: 60/253,834
; PRIOR FILING DATE: 2000-11-29
; PRIOR APPLICATION NUMBER: 60/250,-926
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: 60/264,180
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 60/313,656
; PRIOR FILING DATE: 2001-08-20
; PRIOR APPLICATION NUMBER: 60/327,456
; PRIOR FILING DATE: 2001-10-05
; NUMBER OF SEQ ID NOS: 216
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 2860
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-218-779-3

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Db 588 CGGAGGGGGTGCCTGTGGCCGAGGTGGAATGGCTCAAGAATGAGGATGTCATCGACCCCA 647  
 Qy 578 CCCTGGACCCCAATGTATACATCACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCC 637  
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 Db 648 CCCAGGACACCAACTTCCTGCTCACCATCGACCACAACCTCATCATCCGCCAGGCCCGCC 707  
 Qy 638 TTGCTGACACGGCCAACTACACCTGCGTGGCCAAGAACATCGTGGCACGTGCGCCGAGCG 697  
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 Db 708 TGTCGGACACTGCCAACTATACCTGCGTGGCCAAGAACATCGTGGCCAACGCCGGAGCA 767  
 Qy 698 CCTCCGCTGCTGTCTACGTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCG 757  
 || | || | ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||  
 Db 768 CCACTGCCACCGTCATCGTCTACGTGAATGGCGGCTGGTCCAGCTGGGCAGAGTGGTCAC 827  
 Qy 758 TCTGCAGCGCCAGCTGTGGGCGGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGG 817  
 ||| | | ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||  
 Db 828 CCTGCTCCAACCGCTGTGGCCGAGGCTGGCAGAAGCGACCCGGACCTGCACCAACCCCG 887  
 Qy 818 CGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCGAGAATGTCCAGAAAACAGCCTGCGCCA 877  
 | || ||| ||| || || ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||  
 Db 888 CTCCACTCAACGGAGGGGCTTCTGCGAGGGCCAGGCATTCCAGAAGACCGCCTGCACCA 947  
 Qy 878 CCCTGTGCCCAGTAGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTCCGGCCTGTGGGCTGG 937  
 || | ||| ||| || || ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||  
 Db 948 CCATCTGCCCAGTCGATGGGGCGTGGACGGAGTGGAGCAAGTGGTCCAGCCTGCAGCACTG 1007  
 Qy 938 ACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGG 997  
 | || ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||  
 Db 1008 AGTGTGCCCACTGGCGTAGCCGCGAGTGCATGGCGCCCCACCCAGAACGGAGGCCGTG 1067  
 Qy 998 AGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCAGTGACCTCTGTGTACACAGTG 1057  
 | ||| || || || || ||| || ||| || || ||| || || || || || || || ||  
 Db 1068 ACTGCAGCGGGACGCTGCTCGACTCTAAGAACTGCACAGATGGGCTGTGCATGCAACTGG 1127  
 Qy 1058 CTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGG 1117  
 | || || || || || || || || || || || || || || || || || || || || ||  
 Db 1128 AGGCCTCAGGGGATGCGGCGCTGTATGCGGGGCTCGTGGTGGCCATCTTCGTGGTCTGG 1187  
 Qy 1118 TCCTGCTGCTGCTTGTCTCATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAG 1177  
 | || || || || || || || || || || || || || || || || || || || || ||  
 Db 1188 CAATCCTCATGGCGGTGGGGGTGGTGGTGTACCGCCGCAACTGCCGTGACTTCGACACAG 1247  
 Qy 1178 ATGTGGCTGACTCGTCCATT---CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCA 1234  
 | | ||| ||| || || || || || || || || || || || || || || || || ||  
 Db 1248 ACATCACTGACTCATCTGCTGCCCTGACTGGTGGTTTCCACCCCGTCAACTTTAAGACGG 1307  
 Qy 1235 GCAAAGCAGACAACCCCCATCTGCT-----CACCATCCAGCCGGACCTCAGCACCACCA 1288  
 | | ||| || || || || || || || || || || || || || || || || || ||  
 Db 1308 CAAGGCCAGTAACCCGCAGCTCCTACACCCCTCTGTGCCTCCTGACCTGACAGCCAGCG 1367  
 Qy 1289 CCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGA----- 1325  
 || || ||| || || || || || || || || || || || || || || || || || ||  
 Db 1368 CCGGCATCTACCGCGGACCCGTGTATGCCCTGCAGGACTCCACCGACAAAATCCCCATGA 1427  
 Qy 1326 -----TGGGCCCAGCCCCAAGTTCAGCTCACCA----- 1354  
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 Db 1428 CCAACTCTCCTCTGCTGGACCCCTTACCCAGCCTTAAGGTCAAGGTCTACAGCTCCAGCA 1487

Qy 1355 --ATGGGACACCTGCTCAGCCCCCTGGGTGGCGGCCGCCACAC-----ACTGCACC 1402  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1488 CCACGGGCTCTGGGCCAGGCCTGGCAGATGGGGCTGACCTGCTGGGGGTCTTGCCGCCTG 1547

Qy 1403 ACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCTCCACCCAGAACTACT 1462  
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 Db 1548 GCACATACCCTAGCGATTTGCGCCGGGACACCCACTTCCTGCACCTGCGCAGCGCCAGCC 1607

Qy 1463 TCCGCTC-----CCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCT 1507  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1608 TCGGTTCCCAGCAGCTCTTGGGCCTGCCCCGAGACCCAGGGAGCAGCGTCAGCGGCACCT 1667

Qy 1508 TCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCC 1567  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1668 TTGGCTGCCTGGGTGGGAGGCTCAGCATCCCCGGCACAGGGGTGAGCTTGCTGGTGCCCA 1727

Qy 1568 CAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAG 1627  
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 Db 1728 ATGGAGCCATTCCCCAGGGCAAGTTCTACGAGATGTATCTACTCATCAACAAGGCAGAAA 1787

Qy 1628 ACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGAC 1687  
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 Db 1788 GTACCCTGCCGCTTTTCAAGGGACCCAGACAGTATTGAGCCCCTCGGTGACCTGTGGAC 1847

Qy 1688 CCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCA 1747  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1848 CCACAGGCCTCCTGCTGTGCCGCCCGTCATCCTCACCATGCCCCACTGTGCCGAAGTCA 1907

Qy 1748 GCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATG 1807  
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 Db 1908 GTGCCCGTGACTGGATCTTTTCAAGTCAAGACCCAGGCCACCAGGGCCACTGGGAGGAGG 1967

Qy 1808 TGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTG 1867  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1968 TGGTGACCCTGGATGAGGAGACCCTGAACACACCCTGCTACTGCCAGCTGGAGCCCAGGG 2027

Qy 1868 CCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCG 1927  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 2028 CCTGTACATCCTGCTGGACCAGCTGGGCACCTACGTGTTACGGGCGAGTCCTATTCCC 2087

Qy 1928 TGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCG 1987  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 2088 GCTCAGCAGTCAAGCGGCTCCAGCTGGCCGTCTTCGCCCCCGCCCTCTGCACCTCCCTGG 2147

Qy 1988 AGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGC 2047  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 2148 AGTACAGCCTCCGGGTCTACTGCCTGGAGGACACGCCTGTAGCACTGAAGGAGGTGCTGG 2207

Qy 2048 AGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACTTCAAGG 2107  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 2208 AGCTGGAGCGGACTCTGGGCGGATACTTGGTGGAGGAGCCGAAACCGCTAATGTTCAAGG 2267

Qy 2108 ACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTA 2167  
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 Db 2268 ACAGTTACCACAACCTGCGCCTCTCCCTCCATGACCTCCCCCATGCCATTGGAGGAGCA 2327



Qy 2168 AGCTCCTTGTCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGT 2227  
 Db 2328 AGCTGCTGGCCAAATACCAGGAGATCCCCTTCTATCACATTTGGAGTGGCAGCCAGAAGG 2387

Qy 2228 ACTTGCACTGCACCTTCACCCTGGAGCGTGTCTAGCCCCAGCACTAGTGACCTGGCCTGCA 2287  
 Db 2388 CCCTCCACTGCACTTTTACCCTGGAGAGGCACAGCTTGGCCTCCACAGAGCTCACCTGCA 2447

Qy 2288 AGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCTAGCATCAACTTCAACATCA 2347  
 Db 2448 AGATCTGCGTGCAGCAAGTGAAGGGGAGGGCCAGATATTCCAGCTGCATACCACTCTGG 2507

Qy 2348 CCAAG---GACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAG 2404  
 Db 2508 CAGAGACACCTGCTGGCTCCCTGGACACTCTCTGCTCTGCCCCTGGCAGCACTGTCACCA 2567

Qy 2405 CCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCA 2464  
 Db 2568 CCCAGCTGGGACCTTATGCCTTCAAGATCCCCTGTCCATCCGCCAGAAGATATGCAACA 2627

Qy 2465 GCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACC 2524  
 Db 2628 GCCTAGATGCCCCCAACTCACGGGGCAATGACTGGCGGATGTTAGCACAGAAGCTCTCTA 2687

Qy 2525 TGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACC 2584  
 Db 2688 TGGACCGGTACCTGAATTACTTTGCCACCAAAGCGAGCCCCACGGGTGTGATCCTGGACC 2747

Qy 2585 TGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTG 2644  
 Db 2748 TCTGGGAAGCTCTGCAGCAGGACGATGGGGACCTCAACAGCCTGGCGAGTGCCTTGGAGG 2807

Qy 2645 GACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGA 2697  
 Db 2808 AGATGGGCAAGAGTGAGATGCTGGTGGCTGTGGCCACCGACGGGGACTGCTGA 2860

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